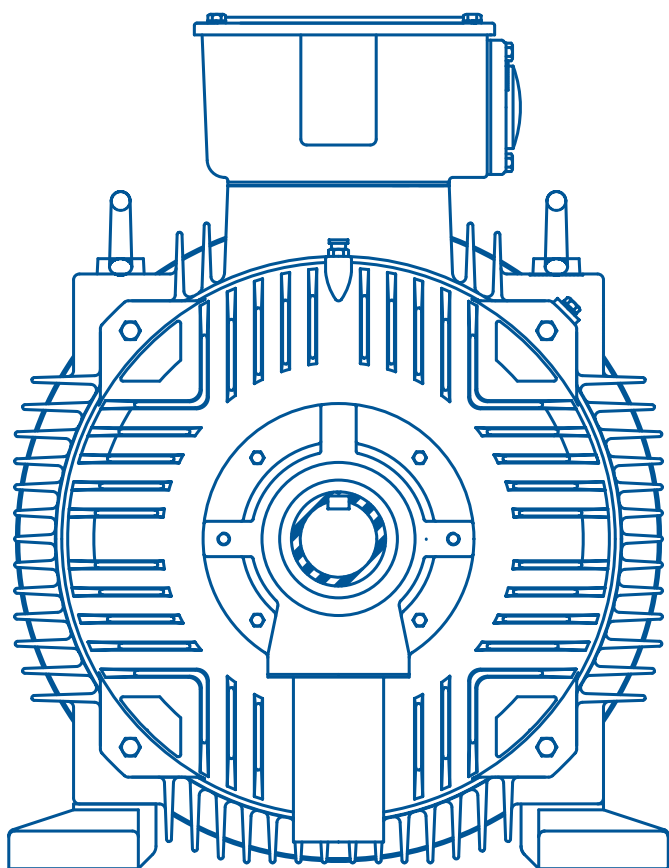




# LVED Low Voltage Three-Phase Electric Motor

**IE3 / IE4 Efficiency**



**TECO**

distributed by



**MOTOVARIO®**

HEART OF MOTION

a **TECO** Group company

## AESV3S- AESV4S AESU3S- AESU4S

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## TECO History

- 1956** Company foundation and start of production in the first TECO factory in San-Chung, TAIWAN
- 1965** Production capacity increased by opening new factory in Shin-Chuan, TAIWAN
- 1966** Start of close technical co-operation with Hitachi, Yaskawa and Taiyo
- 1979** Increased production capacity by opening factory in Chung Li, TAIWAN Plant I (Heavy Motor Plant)
- 1987** Opened Chung Li Plant II for serial motor production (Small Motor Plant), TAIWAN
- 1987** Started Joint Venture with Westinghouse Motor Company, USA, one of the leading motor manufacturers in North America
- 1991** Founded TECO Perai, Penang Province, MALAYSIA, low voltage motors for local market
- 1993** Established TECO Electric Europe in Manchester, UNITED KINGDOM to start presence in Europe
- 1995** 100% take over of Westinghouse motor business by TECO. Established TECO-Westinghouse Motor Company, USA
- 2000** Opened TECO factory for low voltage motors in Suzhou, Jiangsu Province, CHINA
- 2003** Opened TECO factory for low and medium voltage motors in Wuxi, CHINA
- 2005** Opened third TECO factory in Nanchang, Jiangxi Province, CHINA
- 2006** Opened factory in Huyen Long Thanh, Tinh Dong Nai Province, VIETNAM
- 2008** Opened TECO repair plant in Dammam, KINGDOM OF SAUDI ARABIA, on joint venture basis
- 2009** Established TECO Fuan in Fujian Province, CHINA
- 2010** Starting the production of aluminium motors and semi finished aluminium parts at TECO Fuan factory in Fujian Province, CHINA
- 2012** Established India branch office
- 2013** Established Turkey branch office
- 2014** Founding of "HunanTeco Wind Power Co.,Ltd"
- 2015** Acquisition of major Italian gear reducers manufacturer Motovario S.p.A., inroads into power transmission system
- 2016** Inauguration of the lamination center in Wuxi green plant
- 2017** Inauguration of "automated production center of motor stator" at the Chungli plant
- 2018** Ground breaking on Vietnamese motor plant, making Vietnam a major production base of TECO Group in Southeast Asia  
Inking of memorandum of cooperation with Mitsubishi Heavy Industries for production of offshore wind-power systems
- 2019** Join hands with Taiwan Sugar in forging Taiwan's first smart green-energy residential park  
Inauguration of IE3 small-motor plant in Becamex industrial park III in Vietnam's Binh Duong Province

## TECO

### Driving a Smart Future

TECO operates in 45 countries worldwide and affiliates gained a turnover of 1.9 Billion EURO, with approximately 20.000 employees worldwide. More than 50% of the turnover was generated by the Electric Motor business. TECO is listed in the stock exchange in Taipei, TAIWAN.

In Europe, along with well-known TECO-Westinghouse Medium Voltage Motors, TECO manufactures full range Low Voltage Stock Motors to IE3 standard, with cast iron and aluminum cases. With the 510 Series, TECO offers high performance and cost effective wide range of Variable Speed Drives that fit virtually all applications. So whatever your motor and drive requirement our experienced engineering team can help and advice on the correct products to suit your applications.

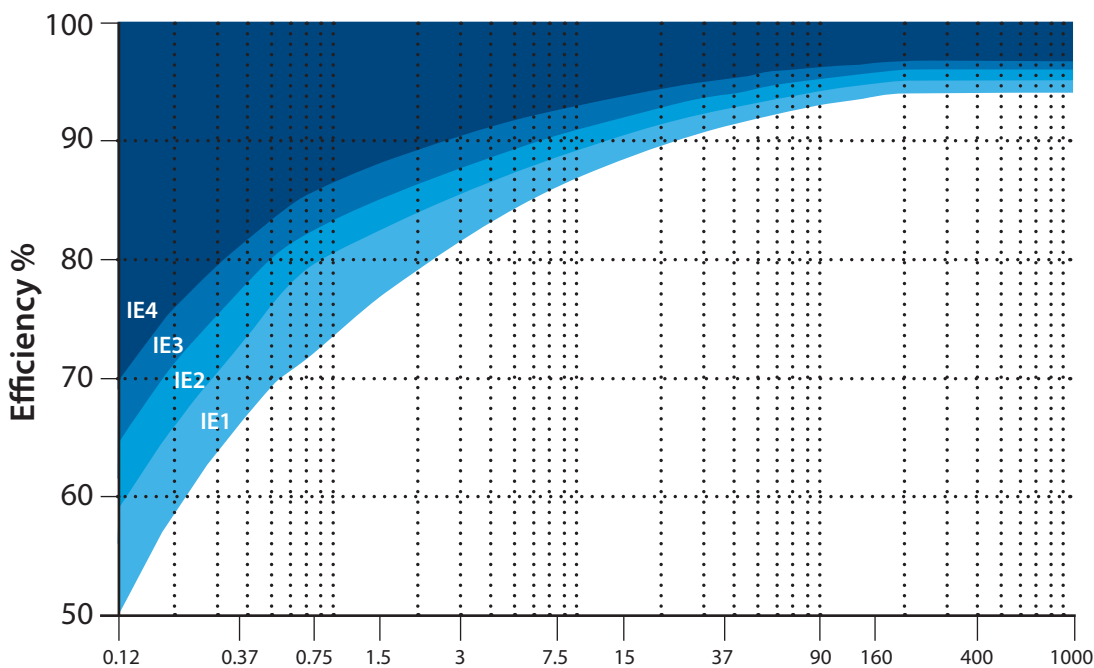
# European Efficiency requirements for low voltage motors

The EU will become the first region in the world to make the international IE4 energy efficiency level mandatory for some categories of electric motors, as of July 2023. It published on 25 October 2019 the result of the revision of the Commission Regulation (EC) 640/2009 for electric motors.

The Commission Regulation (EU) 2019/1781 requires minimum requirements for a wider scope of motors (0.12 kW - 1000 kW), also includes 8-pole motors and abolishes the former requirement of an IE2 motor plus a converter instead of IE3. Also, maximum losses for converters between 0.12 kW and 1000 kW at IE2 are requested. From 2023, IE4 will be required for motors between 75 kW and 200 kW.

- **01/07/2021:** IE3 for all motors from 0.75 kW up to 1000 Kw
- **01/07/2021:** IE2 for all motors from 0.12 kW up to 0.55 kW
- **01/07/2023:** IE4 for all motors from 75 kW up to 200 kW in 2, 4, 6 pole

There are about 8 billion electric motors in use in the EU, consuming nearly 50% of the electricity EU produces. The sector is very heterogeneous, with a considerable variety of technologies, applications and sizes, ranging from tiny motors, such as those driving cooling fans in computers, to huge motors in heavy industries.



1 Efficiency (IE) classes for single speed electric motors according to IEC 60034-30-1

## Mounting Arrangement (IM code)

It is important to nominate the "IM" code at enquiry and order stage to ensure that drain holes are in the correct position and bearing arrangement is checked for suitability if the "IM" code differs from standard.

| Mounting                                                                            | Code acc. IEC 60034-7 |         | Description |                                               |
|-------------------------------------------------------------------------------------|-----------------------|---------|-------------|-----------------------------------------------|
| Diagram                                                                             | Code I                | Code II | Feet        | Flange                                        |
| Horizontal use:                                                                     |                       |         |             |                                               |
|    | IM B3                 | IM 1001 | with feet   | —                                             |
|    | IM B5                 | IM 3001 | —           | with flange (clearance fixing holes)          |
|    | IM B14                | IM 3601 | —           | with flange (tapped fixing holes)             |
|    | IM B34                | IM 2101 | with feet   | with flange (tapped fixing holes)             |
|    | IM B35                | IM 2001 | with feet   | with flange (clearance fixing holes)          |
| Vertical use:                                                                       |                       |         |             |                                               |
|  | IM V1                 | IM 3011 | —           | with flange (clearance fixing holes) shaft up |

Table 1-2: Relevant IM arrangements (selection)

| TECO Stock Motors - Standard Mounting Arrangement and Terminal Box Position |         |           |                                               |                       |
|-----------------------------------------------------------------------------|---------|-----------|-----------------------------------------------|-----------------------|
| MOUNTING                                                                    | IM CODE | (IM CODE) | TERMINAL BOX POSITION (VIEWED FROM DRIVE END) | CABLE ENTRY DIRECTION |
| Foot                                                                        | IM1001  | IMB3      | Top                                           | From Right            |
| Flange                                                                      | IM3011  | IMV1      | As needed (motor can be rotated)              | From flange end       |
| Foot & Flange                                                               | IM2001  | IMB35     | Top                                           | From Right            |

## Degrees of protection

The code of protection indicates the capability of machines against the harmful effects due to ingress of dust and water. It is defined in IEC 60034-5.

The user has to choose a sufficient degree of protection according to the environment when the machines be operated. The code indicating the protection rating is composed of the letters IP followed by two characteristic digits which indicate conformity with the conditions indicated in the table.

|   | The first digit indicates the degree of protection against ingress of solid matter and approach to or contact with live components                                        |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 | no protection                                                                                                                                                             |
| 1 | protection against ingress of solid bodies of diameter greater than 50mm. (e.g. involuntary contact with the hands)                                                       |
| 2 | protection against ingress of solid bodies of diameter greater than 12mm. (e.g. finger)                                                                                   |
| 3 | protection against ingress of solid bodies of diameter greater than 2.5mm                                                                                                 |
| 4 | protection against ingress of solid bodies of diameter greater than 1mm                                                                                                   |
| 5 | protection against ingress of dust; penetration by dust is not completely eliminated, but it may not enter in amounts sufficient to compromise the operation of the motor |
| 6 | total protection against ingress of dust                                                                                                                                  |

|   | The second digit indicates the degree of protection against ingress of water                                                                     |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 | no protection                                                                                                                                    |
| 1 | drops of water falling vertically may not cause damage (e.g. condensation)                                                                       |
| 2 | drops of water falling vertically may not cause damage when the machine is inclined at any angle up to 15° from its normal position              |
| 3 | water fall- ing at an angle to the vertical of up to 60° may not cause damage                                                                    |
| 4 | water sprayed onto the machine from any direction may not cause damage                                                                           |
| 5 | water sprayed onto the machine with a nozzle from any direction may not cause damage                                                             |
| 6 | waves or jets of water may not penetrate into the machine in amounts sufficient to cause damage                                                  |
| 7 | water may not penetrate into the machine in amounts sufficient to cause damage when it is submerged in given conditions of pressure and duration |
| 8 | the motor may remain submerged perma- nently in water in the conditions indicated by the manufacturer                                            |

*TECO's standard electric motors in totally enclosure are IP55 of protection.  
(Optional: IP56, IP65, or IP66)*



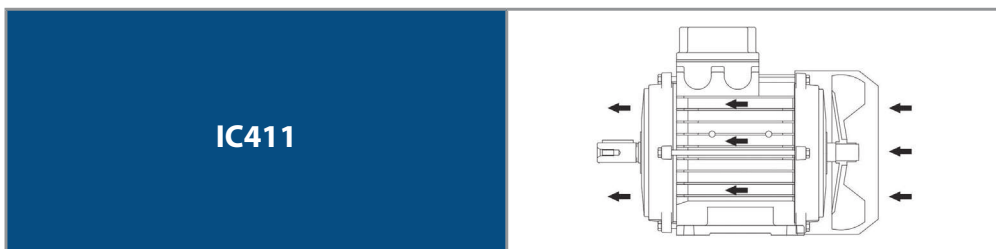
## Cooling

Cooling can be carried out either with ambient air or with cooling water with a large variety of detailed constructions. Principle arrangements of the cooling are defined in IEC 60034-6 (IC code).

There are three common types of cooling method in the range of IEC standard motors:

**IC410:** Totally enclosed non-ventilated: cooling without using a fan, by natural ventilation and radiation on the enclosed motor surface.

**IC411:** Totally enclosed fan-cooled: cooling air is blown over the totally enclosed motor surface by a fan mounted on the shaft.



**IC416:** Totally enclosed forced ventilation: cooling air is blown over the totally enclosed motor surface by an extra fan independent.

The standard cooling method of TECO's motor presented in this catalogue is IC411.

**Note:** Contact our technical service for other cooling systems

## Features of AESV/AESU IE3/IE4 Motor

- Premium (IE3) efficiency, Super Premium (IE4) efficiency
- European Design
- Low Vibration and Noise
- Simple retrofit as IE1, IE2, IE3 and IE4 motors have the same shaft heights.
- The protection enclosure is IP55, protect dust, drip and oil. Cast iron frame strong configuration, which is accord to international standards and safety safeguarded further.

# General information IE3 / IE4

## Product information

- Design Standard: IEC
- Certifications:
  - CE
  - UKCA
  - UL (UL1004-1): E89368
  - UL Fire Pump Motors (UL1004-5): EX6563
- Voltage: 230/400/690V – 265/460
- Frequency: 50HZ/60HZ
- Output Range: 0.18 - 375 kW For IE3 / 0.75kW to 315kW for IE4
- R.P.M. (SYN.): 3000 - 750 R.P.M. (2 - 8 Pole) IE3, 3000 – 1000rpm (2 – 6Pole) IE4
- Time Duty: Continuous (S1); SF 1.0
- Frame Size: 80M ~ 355C
- Protection Enclosure: Totally Enclosed (IP 55)
- Cooling Method: Self external fan, surface cooling (IC 411)
- Ambient Temperature: -15 to 40°C
- Altitude: Less than 1000 meters
- Drive Method: Belt service. However, for 2 pole 45 kW and above; 4, 6 & 8 pole of F# 280 and above coupling service is the way
- Direction of rotation: Clockwise according to IEC definition, suitable For bi-directional operation
- Frame: High grade cast iron
- End Bracket: High grade cast iron
- External Fan: Polypropylene
- Fan Cover: Pressed steel
- Bearing: Vacuum De - Gassed high quality open bearings for frame Nos. 250M ~ 355C, Grease pre - Packed shielded rolling bearings for the others.
- Stator Insulation: Class F insulation system
- Nameplate: Stainless steel plate
- PTC 150°C
- C3 corrosion protection
- Over speed: 120% SYN. R.P.M. for 2 Min
- Over torque: 160% rated torque for 15 Sec
- Painting: IE3 :Munsell 7.5GY 4.5/3.5  
IE4 :Munsell N5

# AESV3S/AESU3S IE3 - Performance Data (400V 50Hz)

## 2 Pole

| OUTPUT |     | FULL<br>LOAD<br><br>rpm | FRAME<br>NO. | EFFICIENCY              |                        |                        | POWER FACTOR            |                        |                        | CURRENT                  |      |      |                        | TORQUE                   |                             |                        |                           | ROTOR<br><br>GD²<br><br>kg·m² | NOISE<br>at<br>no-load<br><br>dB(A) | APPROX.<br>WEIGHT<br><br>kg |
|--------|-----|-------------------------|--------------|-------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|--------------------------|------|------|------------------------|--------------------------|-----------------------------|------------------------|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| kW     | HP  |                         |              | FULL<br>LOAD<br><br>(%) | 3/4<br>LOAD<br><br>(%) | 2/4<br>LOAD<br><br>(%) | FULL<br>LOAD<br><br>(%) | 3/4<br>LOAD<br><br>(%) | 2/4<br>LOAD<br><br>(%) | FULL LOAD (A)<br>VOLTAGE |      |      | LRC<br>(A)<br><br>400V | FULL<br>LOAD<br><br>kg·m | LOCKED<br>ROTOR<br><br>%FLT | PULL<br>UP<br><br>%FLT | BREAK<br>DOWN<br><br>%FLT |                               |                                     |                             |
|        |     |                         |              |                         |                        |                        |                         |                        |                        | 380                      | 400  | 415  |                        |                          |                             |                        |                           |                               |                                     |                             |
| 0,75   | 1   | 2875                    | 80M          | 80,7                    | 78,3                   | 75,1                   | 83,5                    | 77,0                   | 65,5                   | 1,69                     | 1,61 | 1,55 | 12                     | 0,254                    | 280                         | 275                    | 335                       | 0,006                         | 78                                  | 16,0                        |
| 1,1    | 1,5 | 2870                    | 80M          | 82,7                    | 83,0                   | 81,3                   | 85,0                    | 78,5                   | 66,5                   | 2,38                     | 2,26 | 2,18 | 18                     | 0,373                    | 300                         | 295                    | 350                       | 0,007                         | 78                                  | 17,5                        |
| 1,5    | 2   | 2850                    | 90S          | 84,2                    | 85,4                   | 85,8                   | 90,5                    | 87,0                   | 78,0                   | 2,99                     | 2,84 | 2,74 | 22                     | 0,512                    | 220                         | 210                    | 300                       | 0,012                         | 78                                  | 22,0                        |
| 2,2    | 3   | 2860                    | 90L          | 85,9                    | 86,7                   | 86,8                   | 89,5                    | 85,0                   | 75,5                   | 4,35                     | 4,13 | 3,98 | 35                     | 0,748                    | 245                         | 235                    | 315                       | 0,014                         | 78                                  | 24,5                        |
| 3      | 4   | 2855                    | 100L         | 87,1                    | 88,3                   | 88,4                   | 90,0                    | 86,5                   | 78,5                   | 5,81                     | 5,52 | 5,32 | 48                     | 1,022                    | 325                         | 310                    | 355                       | 0,025                         | 82                                  | 37,0                        |
| 3,7    | 5   | 2870                    | 112M         | 87,8                    | 88,2                   | 88,0                   | 90,5                    | 87,5                   | 80,0                   | 7,07                     | 6,72 | 6,48 | 60                     | 1,254                    | 290                         | 270                    | 345                       | 0,046                         | 83                                  | 43,0                        |
| 4      | 5,5 | 2875                    | 112M         | 88,1                    | 89,0                   | 88,9                   | 91,0                    | 87,5                   | 80,0                   | 7,58                     | 7,20 | 6,94 | 69                     | 1,354                    | 270                         | 250                    | 360                       | 0,046                         | 83                                  | 43,0                        |
| 5,5    | 7,5 | 2930                    | 132S         | 89,2                    | 89,8                   | 89,5                   | 86,0                    | 83,6                   | 77,3                   | 10,9                     | 10,3 | 9,97 | 80                     | 1,826                    | 210                         | 205                    | 340                       | 0,075                         | 85                                  | 58,5                        |
| 7,5    | 10  | 2920                    | 132S         | 90,1                    | 90,9                   | 90,8                   | 87,0                    | 84,5                   | 77,5                   | 14,5                     | 13,8 | 13,3 | 100                    | 2,499                    | 210                         | 195                    | 315                       | 0,081                         | 85                                  | 65,0                        |
| 11     | 15  | 2935                    | 160M         | 91,2                    | 92,0                   | 92,0                   | 90,0                    | 89,0                   | 83,5                   | 20,4                     | 19,3 | 18,6 | 148                    | 3,647                    | 230                         | 185                    | 300                       | 0,183                         | 87                                  | 105                         |
| 15     | 20  | 2935                    | 160M         | 91,9                    | 92,0                   | 92,0                   | 89,0                    | 85,5                   | 77,5                   | 27,9                     | 26,5 | 25,5 | 204                    | 4,973                    | 275                         | 230                    | 330                       | 0,205                         | 87                                  | 109                         |
| 18,5   | 25  | 2930                    | 160L         | 92,4                    | 93,0                   | 93,0                   | 90,0                    | 89,5                   | 84,0                   | 33,8                     | 32,1 | 30,9 | 247                    | 6,144                    | 245                         | 200                    | 300                       | 0,237                         | 87                                  | 128                         |
| 22     | 30  | 2940                    | 180M         | 92,7                    | 92,7                   | 92,5                   | 87,0                    | 85,0                   | 77,0                   | 41,4                     | 39,4 | 38,0 | 300                    | 7,281                    | 225                         | 180                    | 300                       | 0,283                         | 88                                  | 152                         |
| 30     | 40  | 2950                    | 200L         | 93,3                    | 93,5                   | 92,5                   | 90,0                    | 90,0                   | 86,5                   | 54,3                     | 51,6 | 49,7 | 376                    | 9,895                    | 200                         | 145                    | 300                       | 0,602                         | 90                                  | 226                         |
| 37     | 50  | 2955                    | 200L         | 93,7                    | 94,5                   | 94,0                   | 91,0                    | 90,5                   | 87,0                   | 65,9                     | 62,6 | 60,4 | 482                    | 12,18                    | 210                         | 145                    | 300                       | 0,753                         | 90                                  | 250                         |
| 45     | 60  | 2960                    | 225M         | 94,0                    | 94,0                   | 93,5                   | 91,0                    | 91,0                   | 88,0                   | 79,9                     | 75,9 | 73,2 | 585                    | 14,79                    | 170                         | 140                    | 300                       | 1,187                         | 92                                  | 290                         |
| 55     | 75  | 2970                    | 250M         | 94,3                    | 94,5                   | 94,0                   | 91,5                    | 90,0                   | 86,5                   | 96,8                     | 92,0 | 88,7 | 708                    | 18,02                    | 165                         | 130                    | 315                       | 1,544                         | 92                                  | 410                         |
| 75     | 100 | 2970                    | 280S         | 94,7                    | 94,6                   | 93,6                   | 90,0                    | 89,8                   | 87,6                   | 134                      | 127  | 122  | 1016                   | 24,57                    | 155                         | 135                    | 300                       | 1,935                         | 94                                  | 505                         |
| 90     | 125 | 2970                    | 280M         | 95,0                    | 95,0                   | 94,0                   | 90,5                    | 90,0                   | 82,5                   | 159                      | 151  | 146  | 1208                   | 29,48                    | 150                         | 135                    | 285                       | 2,463                         | 94                                  | 571                         |
| 110    | 150 | 2980                    | 315S         | 95,2                    | 95,2                   | 94,3                   | 90,5                    | 89,2                   | 83,2                   | 194                      | 184  | 178  | 1419                   | 35,92                    | 200                         | 165                    | 240                       | 3,336                         | 94                                  | 680                         |
| 132    | 175 | 2980                    | 315M         | 95,4                    | 95,3                   | 94,5                   | 90,5                    | 89,5                   | 87,0                   | 232                      | 221  | 213  | 1699                   | 43,10                    | 200                         | 165                    | 240                       | 4,800                         | 94                                  | 906                         |
| 160    | 215 | 2980                    | 315M*        | 95,6                    | 95,5                   | 94,8                   | 91,0                    | 90,0                   | 86,5                   | 279                      | 265  | 256  | 2044                   | 52,24                    | 200                         | 165                    | 250                       | 5,200                         | 94                                  | 880                         |
| 160    | 215 | 2980                    | 315L         | 95,6                    | 95,5                   | 94,8                   | 91,0                    | 90,0                   | 86,5                   | 279                      | 265  | 256  | 2044                   | 52,24                    | 200                         | 165                    | 250                       | 5,200                         | 94                                  | 1010                        |
| 200    | 270 | 2980                    | 315L         | 95,8                    | 95,8                   | 95,2                   | 91,5                    | 90,5                   | 87,5                   | 347                      | 329  | 317  | 2536                   | 65,30                    | 200                         | 165                    | 250                       | 7,200                         | 94                                  | 1100                        |
| 220    | 300 | 2980                    | 315C*        | 95,8                    | 95,6                   | 95,0                   | 90,0                    | 88,5                   | 83,5                   | 388                      | 368  | 355  | 2750                   | 71,83                    | 180                         | 150                    | 230                       | 8,400                         | 98                                  | 1520                        |
| 220    | 300 | 2980                    | 355M         | 95,8                    | 95,6                   | 95,0                   | 90,0                    | 88,5                   | 83,5                   | 388                      | 368  | 355  | 2750                   | 71,83                    | 180                         | 150                    | 230                       | 8,400                         | 98                                  | 1325                        |
| 250    | 335 | 2980                    | 315C*        | 95,8                    | 95,6                   | 95,0                   | 91,0                    | 89,5                   | 85,5                   | 436                      | 414  | 399  | 3000                   | 81,63                    | 180                         | 150                    | 235                       | 10,00                         | 98                                  | 1660                        |
| 250    | 335 | 2980                    | 355M         | 95,8                    | 95,6                   | 95,0                   | 91,0                    | 89,5                   | 85,5                   | 436                      | 414  | 399  | 3000                   | 81,63                    | 180                         | 150                    | 235                       | 10,00                         | 98                                  | 1414                        |
| 315    | 420 | 2980                    | 315D*        | 95,8                    | 95,6                   | 95,0                   | 91,0                    | 90,0                   | 86,0                   | 549                      | 522  | 503  | 3900                   | 102,9                    | 180                         | 150                    | 240                       | 11,20                         | 98                                  | 1780                        |
| 315    | 420 | 2980                    | 355L         | 95,8                    | 95,6                   | 95,0                   | 91,0                    | 90,0                   | 86,0                   | 549                      | 522  | 503  | 3900                   | 102,9                    | 180                         | 150                    | 240                       | 11,20                         | 98                                  | 1740                        |
| 375    | 500 | 2980                    | 355C         | 95,8                    | 95,6                   | 94,7                   | 92,5                    | 91,0                   | 87,0                   | 643                      | 611  | 589  | 4703                   | 122,4                    | 150                         | 125                    | 280                       | 16,00                         | 98                                  | 2500                        |

- NOTE:
1. The above are typical values based on test according to IEC 60034-2-1:2014. (DY)
  2. Tolerance according to IEC 60034-1.
  3. Breakdown & Locked rotor torques are show as average expected voltages.
  4. Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
  5. (\*) small frame : NOT standard design.
  6. Noise : sound power level at no - load, dB(A), Tolerance + 3 dB(A)
  7. Data subject to change without notice.
  8. F#315C & 315D : only suitable for IM B3 and IM B35.

# AESV3S/AESU3S IE3 - Performance Data (400V 50Hz)

## 4 Pole

| Output |      | Full Load<br><br>rpm | Frame No. | Efficiency       |                 |                 | Power Factor     |                 |                 | Current                  |      |      |                    | Torque            |                      |                 |                    | Rotor<br><br>GD²<br><br>kg-m² | Noise<br>at<br>no-load<br><br>dB(A) | Approx. Weight<br><br>kg |
|--------|------|----------------------|-----------|------------------|-----------------|-----------------|------------------|-----------------|-----------------|--------------------------|------|------|--------------------|-------------------|----------------------|-----------------|--------------------|-------------------------------|-------------------------------------|--------------------------|
| kW     | HP   |                      |           | Full Load<br>(%) | 3/4 Load<br>(%) | 2/4 Load<br>(%) | Full Load<br>(%) | 3/4 Load<br>(%) | 2/4 Load<br>(%) | Full Load (A)<br>Voltage |      |      | LRC<br>(A)<br>400V | Full Load<br>kg-m | Locked Rotor<br>%FLT | Pull Up<br>%FLT | Break Down<br>%FLT |                               |                                     |                          |
|        |      |                      |           |                  |                 |                 |                  |                 |                 | 380                      | 400  | 415  |                    |                   |                      |                 |                    |                               |                                     |                          |
| 0,55   | 0,75 | 1430                 | 80M       | 80,8             | 81,5            | 79,5            | 75,0             | 65,0            | 51,0            | 1,38                     | 1,31 | 1,26 | 9,0                | 0,374             | 300                  | 270             | 320                | 0,010                         | 66                                  | 15,5                     |
| 0,75   | 1    | 1410                 | 80M       | 82,5             | 81,8            | 79,7            | 73,5             | 64,0            | 50,0            | 1,88                     | 1,79 | 1,72 | 11                 | 0,518             | 315                  | 290             | 335                | 0,013                         | 66                                  | 17,0                     |
| 1,1    | 1,5  | 1430                 | 90S       | 84,1             | 84,4            | 83,2            | 79,5             | 71,5            | 57,5            | 2,50                     | 2,37 | 2,29 | 17                 | 0,748             | 255                  | 205             | 300                | 0,019                         | 66                                  | 22,0                     |
| 1,5    | 2    | 1435                 | 90L       | 85,3             | 84,1            | 82,2            | 75,0             | 65,5            | 51,5            | 3,56                     | 3,38 | 3,26 | 26                 | 1,017             | 300                  | 235             | 335                | 0,023                         | 66                                  | 24,5                     |
| 2,2    | 3    | 1450                 | 100L      | 86,7             | 87,3            | 86,9            | 81,0             | 73,5            | 60,5            | 4,76                     | 4,52 | 4,36 | 33                 | 1,476             | 210                  | 160             | 300                | 0,045                         | 70                                  | 33,0                     |
| 3      | 4    | 1455                 | 100L      | 87,7             | 87,7            | 86,2            | 81,0             | 73,5            | 60,5            | 6,42                     | 6,10 | 5,88 | 48                 | 2,006             | 250                  | 240             | 335                | 0,052                         | 70                                  | 42,0                     |
| 3,7    | 5    | 1445                 | 112M      | 88,4             | 89,1            | 88,0            | 78,0             | 70,0            | 57,0            | 8,15                     | 7,75 | 7,47 | 63                 | 2,491             | 235                  | 200             | 305                | 0,083                         | 72                                  | 47,0                     |
| 4      | 5,5  | 1445                 | 112M      | 88,6             | 88,4            | 87,9            | 82,0             | 76,5            | 65,5            | 8,37                     | 7,95 | 7,66 | 57                 | 2,693             | 245                  | 205             | 300                | 0,083                         | 72                                  | 47,0                     |
| 5,5    | 7,5  | 1455                 | 132S      | 89,6             | 90,4            | 90,3            | 85,0             | 80,5            | 70,0            | 11,0                     | 10,4 | 10,0 | 77                 | 3,678             | 240                  | 200             | 300                | 0,132                         | 75                                  | 63,0                     |
| 7,5    | 10   | 1460                 | 132M      | 90,4             | 90,8            | 90,4            | 85,0             | 80,0            | 73,0            | 14,8                     | 14,1 | 13,6 | 110                | 4,998             | 270                  | 225             | 330                | 0,172                         | 75                                  | 79,5                     |
| 11     | 15   | 1460                 | 160M      | 91,4             | 92,0            | 91,5            | 85,0             | 81,0            | 71,0            | 21,5                     | 20,4 | 19,7 | 151                | 7,331             | 230                  | 185             | 300                | 0,366                         | 77                                  | 110                      |
| 15     | 20   | 1460                 | 160L      | 92,1             | 92,5            | 92,5            | 85,0             | 81,5            | 71,4            | 29,1                     | 27,7 | 26,7 | 207                | 9,997             | 250                  | 195             | 300                | 0,460                         | 77                                  | 127                      |
| 18,5   | 25   | 1475                 | 180M      | 92,6             | 94,0            | 93,0            | 85,0             | 82,4            | 75,0            | 35,7                     | 33,9 | 32,7 | 264                | 12,20             | 215                  | 160             | 280                | 0,704                         | 80                                  | 160                      |
| 22     | 30   | 1475                 | 180L      | 93,0             | 93,5            | 93,0            | 85,0             | 81,9            | 74,1            | 42,3                     | 40,2 | 38,7 | 315                | 14,51             | 210                  | 145             | 275                | 0,789                         | 80                                  | 176                      |
| 30     | 40   | 1470                 | 200L      | 93,6             | 94,5            | 94,5            | 86,0             | 84,5            | 77,0            | 56,6                     | 53,8 | 51,8 | 403                | 19,86             | 250                  | 205             | 300                | 1,451                         | 83                                  | 235                      |
| 37     | 50   | 1480                 | 225S      | 93,9             | 94,5            | 94,0            | 85,5             | 82,0            | 73,0            | 70,0                     | 66,5 | 64,1 | 499                | 24,33             | 210                  | 175             | 300                | 1,896                         | 84                                  | 290                      |
| 45     | 60   | 1480                 | 225M      | 94,2             | 94,5            | 94,0            | 85,0             | 80,0            | 70,4            | 85,4                     | 81,1 | 78,2 | 600                | 29,58             | 210                  | 175             | 300                | 1,979                         | 84                                  | 319                      |
| 55     | 75   | 1485                 | 250M      | 94,6             | 94,6            | 94,0            | 87,5             | 84,5            | 77,0            | 101                      | 95,9 | 92,4 | 719                | 36,04             | 210                  | 185             | 295                | 3,911                         | 85                                  | 426                      |
| 75     | 100  | 1480                 | 280S      | 95,0             | 95,0            | 94,5            | 85,0             | 82,0            | 73,0            | 141                      | 134  | 129  | 1072               | 49,31             | 160                  | 150             | 300                | 5,033                         | 88                                  | 550                      |
| 90     | 125  | 1480                 | 280M      | 95,2             | 95,2            | 94,7            | 85,0             | 81,0            | 71,3            | 169                      | 161  | 155  | 1288               | 59,17             | 175                  | 165             | 300                | 6,112                         | 88                                  | 615                      |
| 110    | 150  | 1484                 | 315S      | 95,4             | 95,5            | 95,1            | 88,0             | 87,0            | 80,5            | 199                      | 189  | 182  | 1400               | 72,12             | 180                  | 165             | 240                | 8,056                         | 90                                  | 731                      |
| 132    | 175  | 1484                 | 315M*     | 95,6             | 95,6            | 95,2            | 88,0             | 87,5            | 82,0            | 238                      | 226  | 218  | 1582               | 86,55             | 180                  | 165             | 230                | 10,40                         | 90                                  | 1000                     |
| 160    | 215  | 1485                 | 315M      | 95,8             | 95,8            | 95,5            | 88,0             | 88,0            | 82,0            | 288                      | 274  | 264  | 1918               | 104,8             | 180                  | 165             | 230                | 11,60                         | 90                                  | 902                      |
| 160    | 215  | 1485                 | 315L      | 95,8             | 95,8            | 95,5            | 88,0             | 88,0            | 82,0            | 288                      | 274  | 264  | 1918               | 104,8             | 180                  | 165             | 230                | 11,60                         | 90                                  | 1035                     |
| 200    | 270  | 1485                 | 315L*     | 96,0             | 96,0            | 95,8            | 88,0             | 89,0            | 84,5            | 360                      | 342  | 329  | 2394               | 131,0             | 180                  | 165             | 230                | 14,00                         | 90                                  | 1165                     |
| 220    | 300  | 1488                 | 315C      | 96,0             | 95,9            | 95,2            | 86,0             | 82,0            | 72,0            | 405                      | 385  | 371  | 2800               | 143,9             | 200                  | 165             | 260                | 24,00                         | 92                                  | 1640                     |
| 220    | 300  | 1488                 | 355M*     | 96,0             | 95,9            | 95,2            | 86,0             | 82,0            | 72,0            | 405                      | 385  | 371  | 2800               | 143,9             | 200                  | 165             | 260                | 24,00                         | 92                                  | 1445                     |
| 250    | 335  | 1488                 | 315C      | 96,0             | 96,0            | 95,4            | 86,5             | 83,5            | 75,0            | 457                      | 435  | 419  | 3100               | 163,5             | 200                  | 165             | 260                | 26,00                         | 92                                  | 1740                     |
| 250    | 335  | 1488                 | 355M*     | 96,0             | 96,0            | 95,4            | 86,5             | 83,5            | 75,0            | 457                      | 435  | 419  | 3100               | 163,5             | 200                  | 165             | 260                | 26,00                         | 92                                  | 1697                     |
| 315    | 420  | 1488                 | 315D      | 96,0             | 96,0            | 95,5            | 86,5             | 83,5            | 75,0            | 576                      | 548  | 528  | 3900               | 206,0             | 200                  | 165             | 260                | 29,20                         | 92                                  | 1940                     |
| 315    | 420  | 1488                 | 355L      | 96,0             | 96,0            | 95,5            | 86,5             | 83,5            | 75,0            | 576                      | 548  | 528  | 3900               | 206,0             | 200                  | 165             | 260                | 29,20                         | 92                                  | 1820                     |
| 375    | 500  | 1488                 | 355C      | 96,0             | 96,0            | 95,5            | 89,5             | 87,0            | 81,0            | 663                      | 630  | 607  | 4570               | 245,2             | 200                  | 165             | 270                | 35,60                         | 92                                  | 2500                     |

- NOTE:
1. The above are typical values based on test according to IEC 60034-2-1:2014. (DY)
  2. Tolerance according to IEC 60034-1.
  3. Breakdown & Locked rotor torques are show as average expected voltages.
  4. Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
  5. (\*) small frame : NOT standard design.
  6. Noise : sound power level at no - load, dB(A), Tolerance + 3 dB(A)
  7. Data subject to change without notice.
  8. F#315C & 315D : only suitable for IM B3 and IM B35.

# AESV3S/AESU3S IE3 - Performance Data (400V 50Hz)

## 6 Pole

| Output |      | Full Load<br><br>rpm | Frame No. | Efficiency       |                 |                 | Power Factor     |                 |                 | Current                  |      |      |                        | Torque                |                      |                 |                    | Rotor<br><br>GD²<br><br>kg·m² | Noise<br>at<br>no-load<br><br>dB(A) | Approx. Weight<br><br>kg |
|--------|------|----------------------|-----------|------------------|-----------------|-----------------|------------------|-----------------|-----------------|--------------------------|------|------|------------------------|-----------------------|----------------------|-----------------|--------------------|-------------------------------|-------------------------------------|--------------------------|
| kW     | HP   |                      |           | Full Load<br>(%) | 3/4 Load<br>(%) | 2/4 Load<br>(%) | Full Load<br>(%) | 3/4 Load<br>(%) | 2/4 Load<br>(%) | Full Load (A)<br>Voltage |      |      | LRC<br>(A)<br><br>400V | Full Load<br><br>kg·m | Locked Rotor<br>%FLT | Pull Up<br>%FLT | Break Down<br>%FLT |                               |                                     |                          |
|        |      |                      |           |                  |                 |                 |                  |                 |                 | 380                      | 400  | 415  |                        |                       |                      |                 |                    |                               |                                     |                          |
| 0,37   | 0,5  | 905                  | 80M       | 73,5             | 74,0            | 71,0            | 64,0             | 54,0            | 41,0            | 1,20                     | 1,14 | 1,09 | 5,0                    | 0,398                 | 230                  | 200             | 250                | 0,013                         | 63                                  | 17,0                     |
| 0,55   | 0,75 | 905                  | 80M       | 77,2             | 69,9            | 66,4            | 69,0             | 58,0            | 44,5            | 1,57                     | 1,49 | 1,44 | 6,0                    | 0,591                 | 210                  | 195             | 250                | 0,015                         | 63                                  | 18,5                     |
| 0,75   | 1    | 935                  | 90S       | 78,9             | 80,6            | 79,4            | 71,0             | 62,5            | 49,0            | 2,03                     | 1,93 | 1,86 | 9,0                    | 0,780                 | 210                  | 190             | 250                | 0,022                         | 63                                  | 26,0                     |
| 1,1    | 1,5  | 930                  | 90L       | 81,0             | 81,2            | 80,5            | 72,0             | 63,5            | 50,0            | 2,87                     | 2,72 | 2,62 | 13                     | 1,151                 | 210                  | 185             | 240                | 0,026                         | 63                                  | 33,0                     |
| 1,5    | 2    | 950                  | 100L      | 82,5             | 82,9            | 81,5            | 72,5             | 65,0            | 52,0            | 3,81                     | 3,62 | 3,49 | 18                     | 1,536                 | 210                  | 175             | 250                | 0,058                         | 64                                  | 48,0                     |
| 2,2    | 3    | 960                  | 112M      | 84,3             | 84,3            | 82,2            | 67,0             | 59,0            | 47,0            | 5,92                     | 5,62 | 5,42 | 29                     | 2,230                 | 190                  | 180             | 280                | 0,083                         | 70                                  | 50,0                     |
| 3      | 4    | 970                  | 132S      | 85,6             | 86,1            | 85,1            | 76,0             | 69,0            | 58,5            | 7,01                     | 6,66 | 6,42 | 41                     | 3,009                 | 195                  | 170             | 300                | 0,137                         | 73                                  | 64,0                     |
| 3,7    | 5    | 965                  | 132M      | 86,5             | 87,5            | 87,0            | 77,0             | 70,0            | 58,0            | 8,44                     | 8,02 | 7,73 | 56                     | 3,731                 | 200                  | 185             | 275                | 0,182                         | 73                                  | 75,0                     |
| 4      | 5,5  | 970                  | 132M      | 86,8             | 87,0            | 85,6            | 77,0             | 70,0            | 57,5            | 9,09                     | 8,64 | 8,33 | 58                     | 4,012                 | 200                  | 185             | 310                | 0,182                         | 73                                  | 83,0                     |
| 5,5    | 7,5  | 970                  | 132M      | 88,0             | 88,5            | 87,6            | 79,5             | 72,5            | 60,0            | 11,9                     | 11,3 | 10,9 | 88                     | 5,517                 | 210                  | 205             | 300                | 0,216                         | 73                                  | 84,0                     |
| 7,5    | 10   | 970                  | 160M      | 89,1             | 90,0            | 89,0            | 79,0             | 73,0            | 61,0            | 16,2                     | 15,4 | 14,8 | 110                    | 7,523                 | 235                  | 210             | 300                | 0,483                         | 73                                  | 120                      |
| 11     | 15   | 970                  | 160L      | 90,3             | 91,0            | 90,5            | 78,0             | 72,0            | 60,5            | 23,7                     | 22,5 | 21,7 | 168                    | 11,03                 | 295                  | 255             | 300                | 0,628                         | 73                                  | 134                      |
| 15     | 20   | 970                  | 180L      | 91,2             | 92,0            | 92,0            | 82,0             | 78,0            | 68,0            | 30,5                     | 29,0 | 27,9 | 200                    | 15,05                 | 215                  | 165             | 255                | 1,337                         | 77                                  | 177                      |
| 18,5   | 25   | 975                  | 200L      | 91,7             | 92,5            | 92,5            | 80,5             | 76,0            | 66,5            | 38,1                     | 36,2 | 34,9 | 260                    | 18,46                 | 220                  | 185             | 265                | 1,829                         | 80                                  | 243                      |
| 22     | 30   | 975                  | 200L      | 92,2             | 93,0            | 93,5            | 81,5             | 77,0            | 68,0            | 44,5                     | 42,3 | 40,7 | 305                    | 21,95                 | 210                  | 185             | 265                | 2,078                         | 80                                  | 263                      |
| 30     | 40   | 980                  | 225M      | 92,9             | 93,5            | 93,5            | 83,5             | 80,0            | 76,5            | 58,8                     | 55,8 | 53,8 | 335                    | 29,79                 | 210                  | 160             | 240                | 3,023                         | 80                                  | 333                      |
| 37     | 50   | 980                  | 250M      | 93,3             | 94,0            | 94,0            | 85,0             | 81,5            | 75,0            | 70,9                     | 67,3 | 64,9 | 490                    | 36,74                 | 230                  | 200             | 280                | 4,194                         | 82                                  | 410                      |
| 45     | 60   | 985                  | 280S      | 93,7             | 93,7            | 93,0            | 81,5             | 77,5            | 67,5            | 89,5                     | 85,1 | 82,0 | 587                    | 44,45                 | 185                  | 175             | 285                | 5,530                         | 85                                  | 488                      |
| 55     | 75   | 985                  | 280M      | 94,1             | 94,1            | 93,5            | 83,0             | 80,0            | 71,0            | 107                      | 102  | 98,0 | 700                    | 54,33                 | 185                  | 175             | 300                | 6,733                         | 85                                  | 547                      |
| 75     | 100  | 985                  | 315S      | 94,6             | 94,7            | 94,1            | 85,0             | 82,0            | 72,5            | 142                      | 135  | 130  | 930                    | 74,09                 | 200                  | 165             | 240                | 9,945                         | 85                                  | 741                      |
| 90     | 125  | 987                  | 315M      | 94,9             | 94,9            | 94,5            | 85,5             | 83,0            | 75,5            | 169                      | 160  | 154  | 1200                   | 88,72                 | 200                  | 165             | 240                | 15,20                         | 85                                  | 822                      |
| 110    | 150  | 988                  | 315M*     | 95,1             | 95,1            | 94,7            | 85,5             | 83,0            | 75,5            | 206                      | 195  | 188  | 1400                   | 108,3                 | 200                  | 165             | 240                | 18,40                         | 85                                  | 922                      |
| 110    | 150  | 988                  | 315L      | 95,1             | 95,1            | 94,7            | 85,5             | 83,0            | 75,5            | 206                      | 195  | 188  | 1400                   | 108,3                 | 200                  | 165             | 240                | 18,40                         | 85                                  | 1040                     |
| 132    | 175  | 988                  | 315L      | 95,4             | 95,4            | 95,0            | 85,0             | 82,7            | 75,0            | 247                      | 235  | 226  | 1650                   | 130,0                 | 200                  | 165             | 240                | 20,40                         | 86                                  | 1091                     |
| 160    | 215  | 988                  | 315L*     | 95,6             | 95,6            | 95,2            | 85,0             | 82,0            | 74,0            | 299                      | 284  | 274  | 2000                   | 157,6                 | 200                  | 165             | 250                | 23,20                         | 86                                  | 1136                     |
| 160    | 215  | 988                  | 355M      | 95,6             | 95,6            | 95,1            | 86,0             | 83,0            | 74,0            | 296                      | 281  | 271  | 2000                   | 157,6                 | 170                  | 145             | 250                | 35,61                         | 88                                  | 1445                     |
| 200    | 270  | 988                  | 315C*     | 95,8             | 95,8            | 95,2            | 86,0             | 83,0            | 74,5            | 369                      | 350  | 338  | 2500                   | 197,0                 | 170                  | 145             | 250                | 40,66                         | 88                                  | 1780                     |
| 200    | 270  | 988                  | 355M      | 95,8             | 95,8            | 95,2            | 86,0             | 83,0            | 74,5            | 369                      | 350  | 338  | 2500                   | 197,0                 | 170                  | 145             | 250                | 40,66                         | 88                                  | 1585                     |
| 220    | 300  | 988                  | 315C*     | 95,8             | 95,8            | 95,4            | 86,5             | 84,0            | 76,0            | 403                      | 383  | 369  | 2800                   | 216,7                 | 170                  | 145             | 250                | 43,68                         | 88                                  | 1860                     |
| 220    | 300  | 988                  | 355M      | 95,8             | 95,8            | 95,4            | 86,5             | 84,0            | 76,0            | 403                      | 383  | 369  | 2800                   | 216,7                 | 170                  | 145             | 250                | 43,68                         | 88                                  | 1665                     |
| 250    | 335  | 988                  | 315D*     | 95,8             | 95,8            | 95,4            | 86,5             | 83,5            | 75,0            | 458                      | 435  | 420  | 3250                   | 246,2                 | 170                  | 145             | 250                | 46,69                         | 88                                  | 1960                     |
| 250    | 335  | 988                  | 355L      | 95,8             | 95,8            | 95,4            | 86,5             | 83,5            | 75,0            | 458                      | 435  | 420  | 3250                   | 246,2                 | 170                  | 145             | 250                | 46,69                         | 88                                  | 1765                     |
| 315    | 420  | 988                  | 355C      | 95,8             | 95,8            | 95,5            | 87,0             | 85,0            | 78,0            | 574                      | 546  | 526  | 3700                   | 310,2                 | 170                  | 145             | 250                | 55,29                         | 88                                  | 2800                     |

- NOTE:
1. The above are typical values based on test according to IEC 60034-2-1:2014. (DY)
  2. Tolerance according to IEC 60034-1.
  3. Breakdown & Locked rotor torques are show as average expected voltages.
  4. Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
  5. (\*) small frame : NOT standard design.
  6. Noise : sound power level at no - load, dB(A), Tolerance + 3 dB(A)
  7. Data subject to change without notice.
  8. F#315C & 315D : only suitable for IM B3 and IM B35.

# AESV3S/AESU3S IE3 - Performance Data (400V 50Hz)

## 8 Pole

| Output |      | Full Load<br><br>rpm | Frame No. | Efficiency           |                     |                     | Power Factor         |                     |                     | Current                  |      |      |                        | Torque                |                          |                     |                        | Rotor<br><br>GD <sup>2</sup><br><br>kg-m <sup>2</sup> | Noise<br>at<br>no-load<br><br>dB(A) | Approx.<br>Weight<br><br>kg |
|--------|------|----------------------|-----------|----------------------|---------------------|---------------------|----------------------|---------------------|---------------------|--------------------------|------|------|------------------------|-----------------------|--------------------------|---------------------|------------------------|-------------------------------------------------------|-------------------------------------|-----------------------------|
| kW     | HP   |                      |           | Full Load<br><br>(%) | 3/4 Load<br><br>(%) | 2/4 Load<br><br>(%) | Full Load<br><br>(%) | 3/4 Load<br><br>(%) | 2/4 Load<br><br>(%) | Full Load (A)<br>Voltage |      |      | LRC<br>(A)<br><br>400V | Full Load<br><br>kg·m | Locked Rotor<br><br>%FLT | Pull Up<br><br>%FLT | Break Down<br><br>%FLT |                                                       |                                     |                             |
|        |      |                      |           |                      |                     |                     |                      |                     |                     | 380                      | 400  | 415  |                        |                       |                          |                     |                        |                                                       |                                     |                             |
| 0,18   | 0,25 | 705                  | 80M       | 58,7                 | 58,5                | 51,0                | 48,0                 | 40,0                | 32,0                | 0,97                     | 0,92 | 0,89 | 3,4                    | 0,248                 | 250                      | 200                 | 280                    | 0,013                                                 | 63                                  | 17,4                        |
| 0,25   | 0,33 | 680                  | 80M       | 64,1                 | 63,0                | 58,0                | 60,0                 | 50,0                | 39,0                | 0,99                     | 0,94 | 0,90 | 4,0                    | 0,358                 | 200                      | 170                 | 200                    | 0,015                                                 | 63                                  | 19,0                        |
| 0,37   | 0,5  | 705                  | 90S       | 69,3                 | 69,0                | 67,0                | 59,0                 | 49,0                | 38,0                | 1,37                     | 1,31 | 1,26 | 5,1                    | 0,511                 | 190                      | 170                 | 220                    | 0,017                                                 | 63                                  | 21,0                        |
| 0,55   | 0,75 | 705                  | 90L       | 73,0                 | 71,5                | 68,9                | 63,5                 | 53,0                | 42,5                | 1,80                     | 1,71 | 1,65 | 6,8                    | 0,759                 | 170                      | 150                 | 220                    | 0,025                                                 | 63                                  | 24,6                        |
| 0,75   | 1    | 700                  | 100L      | 75,0                 | 74,7                | 70,9                | 60,5                 | 51,0                | 39,0                | 2,51                     | 2,39 | 2,30 | 10                     | 1,043                 | 225                      | 215                 | 235                    | 0,041                                                 | 64                                  | 31,0                        |
| 1,1    | 1,5  | 695                  | 100L      | 77,7                 | 78,8                | 76,8                | 66,0                 | 57,0                | 44,0                | 3,26                     | 3,10 | 2,98 | 13                     | 1,540                 | 200                      | 190                 | 210                    | 0,059                                                 | 64                                  | 38,0                        |
| 1,5    | 2    | 700                  | 112M      | 79,7                 | 80,2                | 79,1                | 69,5                 | 61,0                | 48,0                | 4,11                     | 3,91 | 3,77 | 18                     | 2,085                 | 165                      | 140                 | 205                    | 0,090                                                 | 70                                  | 50,0                        |
| 2,2    | 3    | 705                  | 132S      | 81,9                 | 82,2                | 79,8                | 69,0                 | 60,0                | 46,5                | 5,91                     | 5,62 | 5,42 | 31                     | 3,036                 | 230                      | 205                 | 265                    | 0,138                                                 | 71                                  | 62,0                        |
| 3      | 4    | 715                  | 132M      | 83,5                 | 83,2                | 80,1                | 63,0                 | 53,5                | 40,5                | 8,66                     | 8,23 | 7,93 | 47                     | 4,083                 | 280                      | 250                 | 325                    | 0,180                                                 | 71                                  | 68,0                        |
| 3,7    | 5    | 725                  | 160M      | 84,5                 | 83,8                | 80,8                | 69,0                 | 60,5                | 47,0                | 9,64                     | 9,16 | 8,83 | 59                     | 4,966                 | 250                      | 247                 | 365                    | 0,343                                                 | 72                                  | 106                         |
| 4      | 5,5  | 720                  | 160M      | 84,8                 | 84,7                | 82,5                | 70,5                 | 62,0                | 48,5                | 10,2                     | 9,66 | 9,31 | 57                     | 5,406                 | 190                      | 170                 | 250                    | 0,343                                                 | 72                                  | 106                         |
| 5,5    | 7,5  | 720                  | 160M      | 86,2                 | 85,2                | 83,3                | 71,5                 | 63,0                | 50,0                | 13,6                     | 12,9 | 12,4 | 78                     | 7,433                 | 200                      | 185                 | 275                    | 0,503                                                 | 72                                  | 125                         |
| 7,5    | 10   | 720                  | 160L      | 87,3                 | 87,3                | 85,8                | 71,0                 | 64,5                | 51,0                | 18,4                     | 17,5 | 16,8 | 104                    | 10,14                 | 225                      | 215                 | 295                    | 0,670                                                 | 72                                  | 144                         |
| 11     | 15   | 720                  | 180L      | 88,6                 | 88,6                | 88,1                | 78,0                 | 73,0                | 62,0                | 24,2                     | 23,0 | 22,1 | 130                    | 14,87                 | 170                      | 150                 | 210                    | 1,273                                                 | 76                                  | 187                         |
| 15     | 20   | 730                  | 200L      | 89,6                 | 88,9                | 87,5                | 78,0                 | 72,0                | 60,0                | 32,6                     | 31,0 | 29,9 | 187                    | 19,99                 | 195                      | 170                 | 230                    | 2,082                                                 | 79                                  | 266                         |
| 18,5   | 25   | 735                  | 225S      | 90,1                 | 90,6                | 89,6                | 72,0                 | 65,5                | 58,0                | 43,3                     | 41,2 | 39,7 | 220                    | 24,49                 | 210                      | 185                 | 235                    | 2,675                                                 | 79                                  | 300                         |
| 22     | 30   | 735                  | 225M      | 90,6                 | 90,6                | 90,6                | 74,5                 | 69,0                | 63,0                | 49,5                     | 47,0 | 45,3 | 240                    | 29,12                 | 210                      | 170                 | 215                    | 3,023                                                 | 79                                  | 340                         |
| 30     | 40   | 735                  | 250M      | 91,3                 | 91,3                | 91,3                | 74,5                 | 68,0                | 58,0                | 67,0                     | 63,7 | 61,4 | 350                    | 39,71                 | 210                      | 170                 | 245                    | 4,565                                                 | 80                                  | 419                         |
| 37     | 50   | 735                  | 280S      | 91,8                 | 92,3                | 91,3                | 78,0                 | 73,4                | 63,2                | 78,5                     | 74,6 | 71,9 | 429                    | 48,98                 | 135                      | 130                 | 230                    | 6,277                                                 | 82                                  | 526                         |
| 45     | 60   | 735                  | 280M      | 92,2                 | 92,7                | 92,2                | 76,0                 | 71,5                | 61,0                | 97,6                     | 92,7 | 89,3 | 542                    | 59,57                 | 140                      | 130                 | 220                    | 7,726                                                 | 82                                  | 597                         |
| 55     | 75   | 735                  | 315S      | 92,5                 | 92,6                | 92,0                | 82,0                 | 77,5                | 68,5                | 110                      | 105  | 101  | 677                    | 72,81                 | 130                      | 115                 | 260                    | 9,983                                                 | 82                                  | 711                         |
| 75     | 100  | 738                  | 315M      | 93,1                 | 93,3                | 92,9                | 81,0                 | 78,5                | 70,0                | 151                      | 144  | 138  | 775                    | 98,88                 | 135                      | 120                 | 260                    | 22,33                                                 | 82                                  | 850                         |
| 90     | 125  | 738                  | 315L      | 93,4                 | 93,6                | 93,1                | 80,0                 | 75,5                | 65,5                | 183                      | 174  | 168  | 1008                   | 118,7                 | 160                      | 145                 | 225                    | 24,01                                                 | 82                                  | 1026                        |
| 110    | 150  | 738                  | 315L      | 93,7                 | 94,0                | 93,7                | 80,0                 | 78,5                | 70,0                | 223                      | 212  | 204  | 1181                   | 145,0                 | 150                      | 135                 | 210                    | 30,15                                                 | 82                                  | 1056                        |
| 132    | 175  | 740                  | 315C *    | 94,0                 | 93,9                | 93,0                | 80,0                 | 75,5                | 65,0                | 267                      | 253  | 244  | 1679                   | 173,6                 | 105                      | 90                  | 260                    | 36,29                                                 | 85                                  | 1650                        |
| 132    | 175  | 740                  | 355M      | 94,0                 | 93,9                | 93,0                | 80,0                 | 75,5                | 65,0                | 267                      | 253  | 244  | 1679                   | 173,6                 | 105                      | 90                  | 260                    | 36,29                                                 | 85                                  | 1455                        |
| 160    | 215  | 740                  | 315C *    | 94,3                 | 94,2                | 93,5                | 80,0                 | 74,5                | 63,5                | 322                      | 306  | 295  | 2073                   | 210,4                 | 110                      | 95                  | 265                    | 42,34                                                 | 85                                  | 1760                        |
| 160    | 215  | 740                  | 355M      | 94,3                 | 94,2                | 93,5                | 80,0                 | 74,5                | 63,5                | 322                      | 306  | 295  | 2073                   | 210,4                 | 110                      | 95                  | 265                    | 42,34                                                 | 85                                  | 1565                        |
| 200    | 270  | 740                  | 315D *    | 94,6                 | 94,6                | 94,0                | 80,0                 | 75,5                | 65,0                | 402                      | 381  | 368  | 2571                   | 263,0                 | 110                      | 95                  | 260                    | 52,93                                                 | 85                                  | 1870                        |
| 200    | 270  | 740                  | 355L      | 94,6                 | 94,6                | 94,0                | 80,0                 | 75,5                | 65,0                | 402                      | 381  | 368  | 2571                   | 263,0                 | 110                      | 95                  | 260                    | 52,93                                                 | 85                                  | 1675                        |
| 220    | 300  | 740                  | 315D *    | 94,6                 | 94,6                | 94,1                | 80,5                 | 76,0                | 66,0                | 439                      | 417  | 402  | 2798                   | 289,3                 | 110                      | 95                  | 260                    | 58,22                                                 | 85                                  | 1980                        |
| 220    | 300  | 740                  | 355L      | 94,6                 | 94,6                | 94,1                | 80,5                 | 76,0                | 66,0                | 439                      | 417  | 402  | 2798                   | 289,3                 | 110                      | 95                  | 260                    | 58,22                                                 | 85                                  | 1785                        |
| 250    | 335  | 740                  | 355C      | 94,6                 | 94,8                | 94,6                | 82,0                 | 79,0                | 69,0                | 490                      | 465  | 448  | 3419                   | 328,7                 | 130                      | 115                 | 260                    | 74,99                                                 | 85                                  | 2580                        |

- NOTE:
1. The above are typical values based on test according to IEC 60034-2-1:2014. (DY)
  2. Tolerance according to IEC 60034-1.
  3. Breakdown & Locked rotor torques are show as average expected voltages.
  4. Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
  5. (\*) small frame : NOT standard design.
  6. Noise : sound power level at no - load, dB(A), Tolerance + 3 dB(A)
  7. Data subject to change without notice.
  8. F#315C & 315D : only suitable for IM B3 and IM B35.

# AESV3S/AESU3S IE3 - Performance Data (460V 60Hz)

## 2 Pole

| OUTPUT |      | FULL<br>LOAD<br>rpm | FRAME<br>NO. | EFFICIENCY          |                    |                    | POWER FACTOR        |                    |                    | CURRENT             |                        | TORQUE              |                         |                    |                       | ROTOR<br><br>GD <sup>2</sup><br>kg-m <sup>2</sup> | APPROX.<br>WEIGHT<br>kg |
|--------|------|---------------------|--------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|------------------------|---------------------|-------------------------|--------------------|-----------------------|---------------------------------------------------|-------------------------|
| kW     | HP   |                     |              | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 1/2<br>LOAD<br>(%) | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 1/2<br>LOAD<br>(%) | FULL<br>LOAD<br>(A) | LOCKED<br>ROTOR<br>(A) | FULL<br>LOAD<br>N-m | LOCKED<br>ROTOR<br>%FLT | PULL<br>UP<br>%FLT | BREAK<br>DOWN<br>%FLT |                                                   |                         |
| 0,86   | 1,15 | 3480                | 80M          | 81,6 *              | 80,5               | 76,7               | 84,0                | 78,0               | 67,0               | 1,57                | 14                     | 0,241               | 295                     | 285                | 370                   | 0,006                                             | 16,0                    |
| 1,27   | 1,7  | 3470                | 80M          | 84,0                | 83,9               | 81,6               | 85,5                | 79,5               | 68,0               | 2,22                | 19                     | 0,357               | 320                     | 310                | 365                   | 0,007                                             | 17,5                    |
| 1,73   | 2,32 | 3455                | 90S          | 85,5                | 86,7               | 86,5               | 90,0                | 86,0               | 77,5               | 2,82                | 23                     | 0,488               | 295                     | 210                | 300                   | 0,012                                             | 22,0                    |
| 2,53   | 3,39 | 3460                | 90L          | 86,5                | 87,4               | 87,0               | 89,5                | 85,5               | 76,5               | 4,10                | 38                     | 0,713               | 320                     | 235                | 315                   | 0,014                                             | 24,5                    |
| 3,45   | 4,62 | 3450                | 100L         | 88,5                | 89,4               | 89,2               | 90,0                | 87,5               | 80,0               | 5,44                | 47                     | 0,974               | 295                     | 285                | 335                   | 0,025                                             | 37,0                    |
| 4,6    | 6,17 | 3470                | 112M         | 89,5                | 90,2               | 89,9               | 91,5                | 88,5               | 81,5               | 7,05                | 68                     | 1,292               | 255                     | 250                | 325                   | 0,046                                             | 43,0                    |
| 6,33   | 8,49 | 3525                | 132S         | 89,0 *              | 88,5               | 86,0               | 85,5                | 82,5               | 74,5               | 10,4                | 84                     | 1,750               | 210                     | 200                | 300                   | 0,066                                             | 58,5                    |
| 8,6    | 11,5 | 3520                | 132S         | 90,2                | 90,7               | 90,2               | 87,5                | 85,5               | 79,0               | 13,7                | 100                    | 2,381               | 210                     | 200                | 300                   | 0,081                                             | 65,0                    |
| 12,7   | 17   | 3525                | 160M         | 90,2 *              | 89,8               | 88,3               | 90,8                | 88,0               | 82,0               | 19,5                | 168                    | 3,511               | 215                     | 190                | 300                   | 0,154                                             | 105                     |
| 17,3   | 23   | 3535                | 160M         | 91,0 *              | 91,2               | 90,2               | 91,0                | 89,0               | 84,0               | 26,2                | 246                    | 4,769               | 305                     | 255                | 340                   | 0,205                                             | 109                     |
| 21,3   | 28,5 | 3525                | 160L         | 91,7                | 92,4               | 92,3               | 93,0                | 90,5               | 86,5               | 31,3                | 265                    | 5,888               | 255                     | 210                | 300                   | 0,237                                             | 128                     |
| 25,3   | 34   | 3540                | 180M         | 91,7                | 92,0               | 91,3               | 90,5                | 86,0               | 79,0               | 38,3                | 311                    | 6,965               | 250                     | 200                | 300                   | 0,283                                             | 152                     |
| 34,5   | 46   | 3545                | 200L         | 93,0                | 92,9               | 92,0               | 91,0                | 90,5               | 88,0               | 51,2                | 400                    | 9,484               | 200                     | 160                | 220                   | 0,602                                             | 226                     |
| 42,6   | 57   | 3550                | 200L         | 93,6                | 93,8               | 93,6               | 91,0                | 91,0               | 88,0               | 62,8                | 510                    | 11,69               | 205                     | 150                | 255                   | 0,753                                             | 250                     |
| 52     | 69,5 | 3560                | 225M         | 93,6                | 93,6               | 92,8               | 93,0                | 93,0               | 92,5               | 75,0                | 620                    | 14,23               | 180                     | 175                | 300                   | 1,187                                             | 290                     |
| 63     | 84,5 | 3565                | 250M         | 93,6                | 93,9               | 93,3               | 92,5                | 92,0               | 88,5               | 91,3                | 740                    | 17,22               | 210                     | 160                | 300                   | 1,544                                             | 410                     |
| 86     | 115  | 3570                | 280S         | 93,0 *              | 92,7               | 91,3               | 89,0                | 86,0               | 79,0               | 130                 | 1040                   | 23,48               | 220                     | 190                | 270                   | 2,199                                             | 505                     |
| 104    | 140  | 3570                | 280M         | 93,0 *              | 92,8               | 91,5               | 91,5                | 90,0               | 84,5               | 153                 | 1267                   | 28,39               | 220                     | 190                | 280                   | 2,639                                             | 571                     |
| 127    | 170  | 3565                | 315S         | 95,0                | 94,8               | 93,8               | 91,0                | 89,5               | 86,0               | 184                 | 1475                   | 34,72               | 200                     | 170                | 250                   | 3,200                                             | 680                     |
| 152    | 204  | 3570                | 315M         | 95,4                | 95,1               | 94,0               | 91,0                | 89,5               | 86,0               | 220                 | 1650                   | 41,49               | 140                     | 125                | 250                   | 4,000                                             | 906                     |
| 184    | 247  | 3575                | 315M         | 95,6 *              | 95,4               | 94,4               | 91,5                | 90,5               | 88,0               | 264                 | 2100                   | 50,16               | 140                     | 124                | 250                   | 5,200                                             | 980                     |
| 184    | 247  | 3575                | 315L         | 95,6 *              | 95,4               | 94,4               | 91,5                | 90,5               | 88,0               | 264                 | 2100                   | 50,16               | 140                     | 124                | 250                   | 5,200                                             | 1.010                   |
| 230    | 308  | 3575                | 315L         | 95,8                | 95,6               | 94,5               | 91,5                | 90,5               | 88,0               | 329                 | 2500                   | 62,69               | 140                     | 125                | 250                   | 6,000                                             | 1.100                   |
| 288    | 385  | 3575                | 315C         | 95,8                | 95,5               | 94,4               | 91,5                | 90,5               | 86,5               | 412                 | 3250                   | 78,50               | 140                     | 125                | 230                   | 9,600                                             | 1.660                   |
| 288    | 385  | 3575                | 355M         | 95,8                | 95,5               | 94,4               | 91,5                | 90,5               | 86,5               | 412                 | 3250                   | 78,50               | 140                     | 125                | 230                   | 9,600                                             | 1.414                   |
| 362    | 485  | 3575                | 315D         | 96,0                | 95,7               | 94,6               | 91,5                | 90,5               | 86,5               | 517                 | 4100                   | 98,68               | 140                     | 125                | 230                   | 10,40                                             | 1.780                   |
| 362    | 485  | 3575                | 355L         | 96,0                | 95,7               | 94,6               | 91,5                | 90,5               | 86,5               | 517                 | 4100                   | 98,68               | 140                     | 125                | 230                   | 10,40                                             | 1.740                   |
| 408    | 547  | 3577                | 355C         | 96,0                | 95,8               | 94,8               | 91,5                | 91,0               | 87,0               | 583                 | 4750                   | 111,2               | 160                     | 140                | 230                   | 20,00                                             | 2.470                   |
| 431    | 578  | 3577                | 355C         | 96,0                | 95,8               | 94,8               | 91,5                | 91,0               | 87,2               | 616                 | 4820                   | 117,4               | 160                     | 140                | 230                   | 20,80                                             | 2.500                   |
| 460    | 617  | 3577                | 355C         | 96,0                | 95,8               | 94,8               | 91,5                | 91,0               | 87,5               | 657                 | 5500                   | 125,3               | 140                     | 125                | 230                   | 22,40                                             | 2.550                   |

- NOTE:
1. The above are typical values based on test according to IEC 60034-2-1:2007.
  2. Tolerance according to IEC 60034-1.
  3. Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
  4. (\*) Efficiency, per TECO performance standard ( Not IE3 ).
  5. Data subject to change without notice .



# AESV3S/AESU3S IE3 - Performance Data (460V 60Hz)

## 4 Pole

| OUTPUT |      | FULL<br>LOAD<br>rpm | FRAME<br>NO. | EFFICIENCY          |                    |                    | POWER FACTOR        |                    |                    | CURRENT             |                        | TORQUE              |                         |                    |                       | ROTOR<br><br>GD <sup>2</sup><br>kg-m <sup>2</sup> | APPROX.<br>WEIGHT<br>kg |
|--------|------|---------------------|--------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|------------------------|---------------------|-------------------------|--------------------|-----------------------|---------------------------------------------------|-------------------------|
| kW     | HP   |                     |              | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 1/2<br>LOAD<br>(%) | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 1/2<br>LOAD<br>(%) | FULL<br>LOAD<br>(A) | LOCKED<br>ROTOR<br>(A) | FULL<br>LOAD<br>N-m | LOCKED<br>ROTOR<br>%FLT | PULL<br>UP<br>%FLT | BREAK<br>DOWN<br>%FLT |                                                   |                         |
| 0,63   | 0,84 | 1725                | 80M          | 80,0 *              | 78,8               | 74,3               | 70,0                | 62,5               | 48,0               | 1,41                | 9,0                    | 0,356               | 325                     | 295                | 355                   | 0,010                                             | 15,5                    |
| 0,86   | 1,15 | 1710                | 80M          | 84,0 *              | 83,6               | 81,4               | 74,0                | 65,0               | 51,0               | 1,74                | 12                     | 0,490               | 370                     | 340                | 355                   | 0,013                                             | 17,0                    |
| 1,27   | 1,7  | 1730                | 90S          | 85,5 *              | 86,1               | 84,6               | 78,0                | 70,5               | 57,5               | 2,39                | 17                     | 0,715               | 250                     | 195                | 300                   | 0,019                                             | 22,0                    |
| 1,73   | 2,32 | 1735                | 90L          | 85,5 *              | 85,7               | 83,9               | 75,5                | 67,0               | 53,0               | 3,36                | 25                     | 0,972               | 280                     | 220                | 330                   | 0,023                                             | 24,5                    |
| 2,53   | 3,39 | 1760                | 100L         | 88,5 *              | 88,1               | 86,9               | 74,5                | 65,5               | 52,0               | 4,82                | 41                     | 1,401               | 245                     | 195                | 350                   | 0,045                                             | 33,0                    |
| 3,45   | 4,62 | 1750                | 100L         | 88,5 *              | 88,5               | 87,1               | 79,5                | 72,5               | 60,0               | 6,15                | 50                     | 1,921               | 225                     | 220                | 340                   | 0,052                                             | 42,0                    |
| 4,6    | 6,17 | 1740                | 112M         | 88,5 *              | 89,2               | 88,8               | 82,0                | 77,5               | 67,0               | 7,96                | 57                     | 2,576               | 220                     | 175                | 300                   | 0,083                                             | 47,0                    |
| 6,33   | 8,49 | 1755                | 132S         | 91,7                | 92,1               | 91,9               | 85,5                | 81,0               | 71,0               | 10,1                | 78                     | 3,515               | 255                     | 205                | 330                   | 0,132                                             | 63,0                    |
| 8,6    | 11,5 | 1760                | 132M         | 91,7                | 92,2               | 91,9               | 85,5                | 81,0               | 71,0               | 13,8                | 113                    | 4,762               | 285                     | 235                | 350                   | 0,172                                             | 79,5                    |
| 12,7   | 17   | 1760                | 160M         | 92,4                | 93,0               | 92,9               | 87,0                | 84,0               | 76,0               | 19,8                | 165                    | 7,032               | 255                     | 240                | 355                   | 0,366                                             | 110                     |
| 17,3   | 23   | 1755                | 160L         | 92,4 *              | 93,0               | 93,0               | 87,0                | 84,0               | 76,0               | 27,0                | 228                    | 9,606               | 285                     | 280                | 385                   | 0,460                                             | 127                     |
| 21,3   | 28,5 | 1770                | 180M         | 93,6                | 94,0               | 93,5               | 82,5                | 79,0               | 71,0               | 34,6                | 265                    | 11,73               | 230                     | 225                | 355                   | 0,704                                             | 160                     |
| 25,3   | 34   | 1770                | 180L         | 93,6                | 94,0               | 93,5               | 82,0                | 79,0               | 71,0               | 41,4                | 310                    | 13,93               | 235                     | 230                | 355                   | 0,789                                             | 176                     |
| 34,5   | 46   | 1770                | 200L         | 94,1 *              | 94,5               | 94,3               | 89,0                | 87,0               | 81,5               | 51,7                | 410                    | 18,99               | 210                     | 195                | 300                   | 1,451                                             | 235                     |
| 42,6   | 57   | 1780                | 225S         | 94,5 *              | 94,7               | 94,1               | 86,0                | 83,0               | 75,5               | 65,8                | 510                    | 23,32               | 210                     | 190                | 310                   | 1,896                                             | 290                     |
| 52     | 69,5 | 1775                | 225M         | 94,5 *              | 94,5               | 94,1               | 86,0                | 83,5               | 76,5               | 80,3                | 620                    | 28,55               | 235                     | 200                | 295                   | 1,979                                             | 319                     |
| 63     | 84,5 | 1780                | 250M         | 95,0 *              | 95,0               | 94,2               | 88,0                | 85,5               | 78,5               | 94,6                | 755                    | 34,49               | 240                     | 205                | 300                   | 3,911                                             | 426                     |
| 86     | 115  | 1780                | 280S         | 94,2 *              | 94,0               | 92,5               | 88,0                | 84,0               | 74,5               | 130                 | 1000                   | 47,08               | 220                     | 190                | 270                   | 5,033                                             | 550                     |
| 104    | 140  | 1780                | 280M         | 94,2 *              | 94,0               | 92,5               | 87,5                | 82,5               | 72,5               | 158                 | 1240                   | 56,94               | 220                     | 190                | 280                   | 6,112                                             | 615                     |
| 127    | 170  | 1785                | 315S         | 95,6 *              | 95,5               | 94,7               | 89,0                | 87,5               | 82,0               | 187                 | 1500                   | 69,33               | 200                     | 170                | 250                   | 7,600                                             | 731                     |
| 152    | 204  | 1785                | 315M         | 95,8 *              | 95,6               | 95,3               | 89,0                | 88,5               | 84,5               | 224                 | 1800                   | 82,98               | 200                     | 170                | 250                   | 10,40                                             | 1.000                   |
| 184    | 247  | 1785                | 315M         | 96,0 *              | 95,8               | 95,5               | 89,5                | 88,5               | 84,5               | 269                 | 2200                   | 100,5               | 200                     | 170                | 250                   | 11,60                                             | 902                     |
| 184    | 247  | 1785                | 315L         | 96,0 *              | 95,8               | 95,5               | 89,5                | 88,5               | 84,5               | 269                 | 2200                   | 100,5               | 200                     | 170                | 250                   | 11,60                                             | 1.035                   |
| 230    | 308  | 1785                | 315L         | 96,0 *              | 96,0               | 95,5               | 89,5                | 88,5               | 85,5               | 336                 | 2600                   | 125,6               | 200                     | 170                | 250                   | 14,00                                             | 1.165                   |
| 288    | 385  | 1788                | 315C         | 96,2                | 96,0               | 95,5               | 87,5                | 84,0               | 76,5               | 429                 | 3240                   | 157,0               | 200                     | 170                | 250                   | 26,40                                             | 1.740                   |
| 288    | 385  | 1788                | 355M         | 96,2                | 96,0               | 95,5               | 87,5                | 84,0               | 76,5               | 429                 | 3240                   | 157,0               | 200                     | 170                | 250                   | 26,40                                             | 1.697                   |
| 362    | 485  | 1788                | 315D         | 96,2                | 96,1               | 95,5               | 88,0                | 85,5               | 79,0               | 537                 | 3980                   | 197,3               | 200                     | 170                | 250                   | 31,60                                             | 1.940                   |
| 362    | 485  | 1788                | 355L         | 96,2                | 96,1               | 95,5               | 88,0                | 85,5               | 79,0               | 537                 | 3980                   | 197,3               | 200                     | 170                | 250                   | 31,60                                             | 1.820                   |
| 408    | 547  | 1788                | 355C         | 96,2                | 96,1               | 95,5               | 89,5                | 88,0               | 83,0               | 595                 | 4450                   | 222,4               | 200                     | 170                | 250                   | 38,00                                             | 2.500                   |
| 431    | 578  | 1788                | 355C         | 96,2                | 96,1               | 95,5               | 89,5                | 88,0               | 83,0               | 628                 | 4890                   | 234,9               | 200                     | 170                | 250                   | 38,00                                             | 2.550                   |
| 460    | 617  | 1788                | 355C         | 96,2                | 96,2               | 95,6               | 89,5                | 88,0               | 83,0               | 671                 | 5285                   | 250,7               | 200                     | 170                | 250                   | 42,80                                             | 2.630                   |

- NOTE:
1. The above are typical values based on test according to IEC 60034-2-1:2007.
  2. Tolerance according to IEC 60034-1.
  3. Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
  4. ( \*) Efficiency, per TECO performance standard ( Not IE3 ).
  5. Data subject to change without notice .



# AESV3S/AESU3S IE3 - Performance Data (460V 60Hz)

## 6 Pole

| OUTPUT |      | FULL<br>LOAD<br>rpm | FRAME<br>NO. | EFFICIENCY          |                    |                    | POWER FACTOR        |                    |                    | CURRENT             |                        | TORQUE              |                         |                    |                       | ROTOR<br><br>GD <sup>2</sup><br><br>kg-m <sup>2</sup> | APPROX.<br>WEIGHT<br><br>kg |
|--------|------|---------------------|--------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|------------------------|---------------------|-------------------------|--------------------|-----------------------|-------------------------------------------------------|-----------------------------|
| kW     | HP   |                     |              | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 1/2<br>LOAD<br>(%) | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 1/2<br>LOAD<br>(%) | FULL<br>LOAD<br>(A) | LOCKED<br>ROTOR<br>(A) | FULL<br>LOAD<br>N-m | LOCKED<br>ROTOR<br>%FLT | PULL<br>UP<br>%FLT | BREAK<br>DOWN<br>%FLT |                                                       |                             |
| 0,43   | 0,58 | 1120                | 80M          | 76,0                | 76,4               | 73,1               | 61,0                | 51,5               | 39,0               | 1,16                | 5,3                    | 0,374               | 225                     | 220                | 255                   | 0,013                                                 | 17,0                        |
| 0,63   | 0,84 | 1110                | 80M          | 76,0 *              | 76,4               | 73,5               | 66,5                | 57,0               | 44,0               | 1,56                | 7,0                    | 0,553               | 210                     | 205                | 240                   | 0,014                                                 | 18,5                        |
| 0,86   | 1,15 | 1140                | 90S          | 82,5                | 83,8               | 82,7               | 70,5                | 62,0               | 48,5               | 1,86                | 10                     | 0,735               | 195                     | 170                | 250                   | 0,022                                                 | 26,0                        |
| 1,27   | 1,7  | 1130                | 90L          | 82,5 *              | 83,3               | 82,6               | 72,0                | 64,0               | 50,5               | 2,68                | 13                     | 1,095               | 185                     | 165                | 235                   | 0,026                                                 | 33,0                        |
| 1,73   | 2,32 | 1150                | 100L         | 84,0 *              | 84,2               | 82,7               | 73,0                | 65,5               | 53,0               | 3,54                | 18                     | 1,466               | 200                     | 155                | 240                   | 0,058                                                 | 48,0                        |
| 2,53   | 3,39 | 1155                | 112M         | 86,5 *              | 86,5               | 84,7               | 67,5                | 60,0               | 48,0               | 5,44                | 28                     | 2,135               | 165                     | 160                | 270                   | 0,083                                                 | 50,0                        |
| 3,45   | 4,62 | 1165                | 132S         | 88,5 *              | 88,5               | 87,0               | 77,0                | 70,0               | 57,5               | 6,35                | 42                     | 2,886               | 190                     | 165                | 300                   | 0,137                                                 | 64,0                        |
| 4,6    | 6,17 | 1170                | 132M         | 90,2 *              | 90,4               | 88,9               | 77,5                | 70,5               | 57,5               | 8,26                | 61                     | 3,831               | 210                     | 170                | 300                   | 0,182                                                 | 83,0                        |
| 6,33   | 8,49 | 1170                | 132M         | 90,2 *              | 90,0               | 88,6               | 74,5                | 67,0               | 53,5               | 11,8                | 87                     | 5,272               | 210                     | 185                | 330                   | 0,216                                                 | 84,0                        |
| 8,6    | 11,5 | 1170                | 160M         | 91,0                | 91,5               | 91,0               | 80,0                | 75,0               | 64,5               | 14,8                | 110                    | 7,163               | 235                     | 210                | 300                   | 0,483                                                 | 120                         |
| 12,7   | 17   | 1170                | 160L         | 91,0 *              | 91,7               | 91,3               | 81,0                | 76,0               | 65,5               | 21,6                | 172                    | 10,58               | 245                     | 220                | 300                   | 0,628                                                 | 134                         |
| 17,3   | 23   | 1165                | 180L         | 91,7 *              | 92,3               | 92,6               | 83,5                | 80,5               | 73,0               | 28,4                | 205                    | 14,47               | 225                     | 200                | 280                   | 1,337                                                 | 177                         |
| 21,3   | 28,5 | 1175                | 200L         | 93,0                | 93,4               | 93,3               | 82,0                | 78,0               | 69,5               | 35,1                | 270                    | 17,67               | 255                     | 195                | 260                   | 1,829                                                 | 243                         |
| 25,3   | 34   | 1175                | 200L         | 93,0                | 93,5               | 93,5               | 82,0                | 79,0               | 71,0               | 41,6                | 320                    | 20,98               | 245                     | 190                | 250                   | 2,078                                                 | 263                         |
| 34,5   | 46   | 1175                | 225M         | 93,0 *              | 93,7               | 93,7               | 87,0                | 86,0               | 81,0               | 53,5                | 340                    | 28,61               | 175                     | 120                | 210                   | 3,023                                                 | 333                         |
| 42,6   | 57   | 1180                | 250M         | 94,1 *              | 94,3               | 94,0               | 87,5                | 86,0               | 80,0               | 64,9                | 500                    | 35,18               | 220                     | 195                | 250                   | 4,194                                                 | 410                         |
| 52     | 69,5 | 1185                | 280S         | 93,6 *              | 93,4               | 92,5               | 84,5                | 81,0               | 72,5               | 82,5                | 594                    | 42,76               | 220                     | 190                | 250                   | 5,530                                                 | 488                         |
| 63     | 84,5 | 1185                | 280M         | 93,6 *              | 93,5               | 92,6               | 86,0                | 83,4               | 75,7               | 98,2                | 727                    | 51,81               | 220                     | 190                | 270                   | 6,733                                                 | 547                         |
| 86     | 115  | 1185                | 315S         | 95,0                | 95,0               | 94,5               | 86,0                | 84,0               | 77,0               | 132                 | 900                    | 70,72               | 180                     | 150                | 250                   | 9,60                                                  | 741                         |
| 104    | 140  | 1185                | 315M         | 95,4                | 95,4               | 94,8               | 86,0                | 83,0               | 75,5               | 159                 | 1200                   | 85,52               | 200                     | 170                | 250                   | 15,20                                                 | 822                         |
| 127    | 170  | 1186                | 315M         | 95,6 *              | 95,6               | 95,0               | 86,5                | 84,5               | 77,5               | 193                 | 1420                   | 104,4               | 200                     | 170                | 250                   | 18,40                                                 | 922                         |
| 127    | 170  | 1186                | 315L         | 95,6 *              | 95,6               | 95,0               | 86,5                | 84,5               | 77,5               | 193                 | 1420                   | 104,4               | 200                     | 170                | 250                   | 18,40                                                 | 1.040                       |
| 152    | 204  | 1186                | 315L         | 95,8                | 95,8               | 95,3               | 86,5                | 84,0               | 76,5               | 230                 | 1650                   | 124,9               | 200                     | 170                | 250                   | 20,40                                                 | 1.091                       |
| 184    | 247  | 1187                | 315L         | 95,8                | 95,8               | 95,3               | 86,5                | 84,5               | 77,0               | 279                 | 2000                   | 151,1               | 210                     | 180                | 250                   | 23,20                                                 | 1.136                       |
| 184    | 247  | 1188                | 355M         | 95,8                | 95,8               | 95,3               | 86,5                | 84,5               | 77,0               | 279                 | 2300                   | 150,9               | 210                     | 180                | 250                   | 34,00                                                 | 1.445                       |
| 230    | 308  | 1188                | 315C         | 95,8                | 95,8               | 95,4               | 87,0                | 84,5               | 78,0               | 346                 | 2700                   | 188,7               | 210                     | 180                | 250                   | 38,80                                                 | 1.780                       |
| 230    | 308  | 1188                | 355M         | 95,8                | 95,8               | 95,4               | 87,0                | 84,5               | 78,0               | 346                 | 2700                   | 188,7               | 210                     | 180                | 250                   | 38,80                                                 | 1.585                       |
| 288    | 385  | 1188                | 315D         | 95,8                | 95,8               | 95,5               | 87,0                | 85,0               | 78,5               | 434                 | 3400                   | 236,2               | 210                     | 180                | 250                   | 44,40                                                 | 1.960                       |
| 288    | 385  | 1188                | 355L         | 95,8                | 95,8               | 95,5               | 87,0                | 85,0               | 78,5               | 434                 | 3400                   | 236,2               | 210                     | 180                | 250                   | 44,40                                                 | 1.765                       |
| 362    | 485  | 1190                | 355C         | 96,0                | 96,0               | 95,8               | 87,0                | 85,0               | 79,0               | 544                 | 4380                   | 296,4               | 200                     | 170                | 250                   | 57,20                                                 | 2.800                       |
| 408    | 547  | 1190                | 355C         | 96,0                | 96,0               | 95,8               | 87,5                | 85,5               | 79,5               | 610                 | 4950                   | 334,1               | 200                     | 170                | 250                   | 64,80                                                 | 2.740                       |

- NOTE:
1. The above are typical values based on test according to IEC 60034-2-1:2007.
  2. Tolerance according to IEC 60034-1.
  3. Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
  4. (\*) Efficiency, per TECO performance standard ( Not IE3 ).
  5. Data subject to change without notice .

# AESV3S/AESU3S IE3 - Performance Data (460V 60Hz)

## 8 Pole

| OUTPUT |      | FULL<br>LOAD<br>rpm | FRAME<br>NO. | EFFICIENCY          |                    |                    | POWER FACTOR        |                    |                    | CURRENT             |                        | TORQUE              |                         |                    |                       | ROTOR<br><br>GD <sup>2</sup><br>kg-m <sup>2</sup> | APPROX.<br>WEIGHT<br>kg |
|--------|------|---------------------|--------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|------------------------|---------------------|-------------------------|--------------------|-----------------------|---------------------------------------------------|-------------------------|
| kW     | HP   |                     |              | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 1/2<br>LOAD<br>(%) | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 1/2<br>LOAD<br>(%) | FULL<br>LOAD<br>(A) | LOCKED<br>ROTOR<br>(A) | FULL<br>LOAD<br>N-m | LOCKED<br>ROTOR<br>%FLT | PULL<br>UP<br>%FLT | BREAK<br>DOWN<br>%FLT |                                                   |                         |
| 0,21   | 0,28 | 860                 | 80M          | 61,5 *              | 57,1               | 48,4               | 45,00               | 38,5               | 31,5               | 0,95                | 4,0                    | 0,238               | 320                     | 315                | 335                   | 0,013                                             | 17,4                    |
| 0,29   | 0,39 | 840                 | 80M          | 68,0                | 65,6               | 59,3               | 58,00               | 49,5               | 39,0               | 0,92                | 4,0                    | 0,336               | 210                     | 205                | 220                   | 0,015                                             | 19,0                    |
| 0,43   | 0,58 | 855                 | 90S          | 72,0                | 71,3               | 67,2               | 62,00               | 53,0               | 41,5               | 1,21                | 5,0                    | 0,490               | 165                     | 155                | 220                   | 0,017                                             | 21,0                    |
| 0,63   | 0,84 | 855                 | 90L          | 74,0                | 74,0               | 71,5               | 65,00               | 56,5               | 44,0               | 1,64                | 7,0                    | 0,718               | 155                     | 145                | 210                   | 0,025                                             | 24,6                    |
| 0,86   | 1,15 | 855                 | 100L         | 75,5                | 75,5               | 73,6               | 63,50               | 54,2               | 41,0               | 2,25                | 11,0                   | 0,980               | 185                     | 170                | 230                   | 0,041                                             | 31,0                    |
| 1,27   | 1,7  | 850                 | 100L         | 78,5                | 79,5               | 78,8               | 68,00               | 59,0               | 46,0               | 2,99                | 14,0                   | 1,456               | 165                     | 155                | 210                   | 0,059                                             | 38,0                    |
| 1,73   | 2,32 | 855                 | 112M         | 79,6 *              | 81,4               | 81,1               | 69,00               | 61,0               | 48,0               | 3,95                | 20,0                   | 1,972               | 150                     | 110                | 220                   | 0,090                                             | 50,0                    |
| 2,53   | 3,39 | 855                 | 132S         | 84,6 *              | 85,3               | 83,8               | 65,50               | 56,0               | 43,0               | 5,73                | 33,0                   | 2,884               | 240                     | 220                | 290                   | 0,138                                             | 62,0                    |
| 3,45   | 4,62 | 860                 | 132M         | 85,7 *              | 86,0               | 84,1               | 62,00               | 52,5               | 39,5               | 8,15                | 50,0                   | 3,909               | 275                     | 250                | 335                   | 0,180                                             | 68,0                    |
| 4,6    | 6,17 | 870                 | 160M         | 86,5 *              | 86,8               | 85,8               | 67,00               | 57,5               | 44,0               | 9,96                | 59,0                   | 5,152               | 210                     | 195                | 285                   | 0,343                                             | 106                     |
| 6,33   | 8,49 | 870                 | 160M         | 86,5                | 87,0               | 86,5               | 69,50               | 61,0               | 47,5               | 13,2                | 75,0                   | 7,090               | 200                     | 190                | 270                   | 0,503                                             | 125                     |
| 8,6    | 11,5 | 870                 | 160L         | 89,5                | 89,9               | 89,2               | 69,00               | 60,0               | 46,5               | 17,5                | 105                    | 9,633               | 215                     | 200                | 280                   | 0,670                                             | 144                     |
| 12,7   | 17   | 870                 | 180L         | 89,5                | 90,9               | 91,0               | 82,00               | 79,0               | 69,5               | 21,7                | 127                    | 14,23               | 165                     | 150                | 200                   | 1,273                                             | 187                     |
| 17,3   | 23   | 870                 | 200L         | 88,7 *              | 90,1               | 90,6               | 80,50               | 76,5               | 66,5               | 30,4                | 182                    | 19,38               | 200                     | 180                | 220                   | 2,082                                             | 266                     |
| 21,3   | 28,5 | 880                 | 225S         | 92,0                | 92,5               | 92,0               | 76,5                | 72,0               | 61,5               | 38,0                | 196                    | 23,59               | 200                     | 140                | 235                   | 2,675                                             | 300                     |
| 25,3   | 34   | 880                 | 225M         | 92,0                | 92,5               | 92,0               | 78,0                | 75,0               | 66,0               | 44,3                | 208                    | 28,02               | 180                     | 150                | 250                   | 3,023                                             | 340                     |
| 34,5   | 46   | 885                 | 250M         | 93,0                | 93,0               | 93,0               | 79,0                | 74,5               | 64,5               | 58,9                | 295                    | 37,99               | 180                     | 130                | 225                   | 4,565                                             | 419                     |
| 42,6   | 57   | 885                 | 280S         | 91,7 *              | 91,7               | 90,0               | 75,0                | 68,0               | 55,0               | 77,7                | 502                    | 46,91               | 125                     | 105                | 240                   | 6,277                                             | 526                     |
| 52     | 69,5 | 885                 | 280M         | 93,0 *              | 93,0               | 91,5               | 76,0                | 62,0               | 53,0               | 92,3                | 600                    | 57,26               | 120                     | 100                | 230                   | 7,726                                             | 597                     |
| 63     | 84,5 | 887                 | 315S         | 93,6                | 93,4               | 92,4               | 82,0                | 78,0               | 70,0               | 103                 | 650                    | 69,21               | 130                     | 110                | 220                   | 9,20                                              | 711                     |
| 86     | 115  | 886                 | 315M         | 93,9                | 93,8               | 93,0               | 82,0                | 79,0               | 71,0               | 140                 | 770                    | 94,59               | 130                     | 110                | 220                   | 21,20                                             | 850                     |
| 104    | 140  | 886                 | 315L         | 94,1                | 94,0               | 93,2               | 81,5                | 78,0               | 69,0               | 170                 | 965                    | 114,4               | 140                     | 120                | 220                   | 24,80                                             | 1.026                   |
| 127    | 170  | 888                 | 315L         | 94,5                | 94,5               | 93,6               | 81,5                | 79,5               | 72,0               | 207                 | 1250                   | 139,4               | 140                     | 120                | 220                   | 28,80                                             | 1.056                   |
| 152    | 204  | 888                 | 315C         | 94,8                | 94,7               | 93,8               | 81,5                | 78,0               | 69,5               | 247                 | 1580                   | 166,8               | 125                     | 100                | 220                   | 33,20                                             | 1.650                   |
| 152    | 204  | 888                 | 355M         | 94,8                | 94,7               | 93,8               | 81,5                | 78,0               | 69,5               | 247                 | 1580                   | 166,8               | 125                     | 100                | 220                   | 33,20                                             | 1.455                   |
| 184    | 247  | 888                 | 315C         | 95,0                | 94,9               | 94,1               | 81,5                | 78,0               | 69,0               | 298                 | 1950                   | 201,9               | 125                     | 100                | 220                   | 36,40                                             | 1.760                   |
| 184    | 247  | 888                 | 355M         | 95,0                | 94,9               | 94,1               | 81,5                | 78,0               | 69,0               | 298                 | 1950                   | 201,9               | 125                     | 100                | 220                   | 36,40                                             | 1.565                   |
| 230    | 308  | 888                 | 315D         | 95,1                | 95,1               | 94,7               | 82,0                | 79,0               | 70,0               | 370                 | 2495                   | 252,4               | 125                     | 100                | 220                   | 48,00                                             | 1.870                   |
| 230    | 308  | 888                 | 355L         | 95,1                | 95,1               | 94,7               | 82,0                | 79,0               | 70,0               | 370                 | 2495                   | 252,4               | 125                     | 100                | 220                   | 48,00                                             | 1.675                   |
| 288    | 385  | 888                 | 355C         | 95,1                | 95,1               | 94,6               | 82,0                | 79,0               | 70,0               | 464                 | 3250                   | 316,1               | 160                     | 130                | 200                   | 72,40                                             | 2.580                   |

- NOTE:
1. The above are typical values based on test according to IEC 60034-2-1:2007.
  2. Tolerance according to IEC 60034-1.
  3. Efficiency, power factor, speed and torque are the same for other voltages.  
Current values vary inversely with voltage.
  4. ( \*) Efficiency, per TECO performance standard ( Not IE3 ).
  5. Data subject to change without notice .

# AESV4S/AESU4S IE4 - 380V 50Hz

2 Pole

| OUTPUT |     | FULL<br>LOAD<br><br>rpm | FRAME<br>NO. | EFFICIENCY   |             |             | POWER FACTOR |             |             | CURRENT      |                 | TORQUE       |                 |            |               | ROTOR<br><br>GD <sup>2</sup><br><br>(kg-m²) | NOISE<br>SOUND<br>POWER<br>NO-LOAD<br><br>dB(A) | APPROX.<br>WEIGHT<br><br>kg |
|--------|-----|-------------------------|--------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-----------------|--------------|-----------------|------------|---------------|---------------------------------------------|-------------------------------------------------|-----------------------------|
| kW     | HP  |                         |              | FULL<br>LOAD | 3/4<br>LOAD | 1/2<br>LOAD | FULL<br>LOAD | 3/4<br>LOAD | 1/2<br>LOAD | FULL<br>LOAD | LOCKED<br>ROTOR | FULL<br>LOAD | LOCKED<br>ROTOR | PULL<br>UP | BREAK<br>DOWN |                                             |                                                 |                             |
|        |     |                         |              | (%)          | (%)         | (%)         | (%)          | (%)         | (%)         | (A)          | %FLC            | (kg-m)       | (%FLT)          | (%FLT)     | (%FLT)        |                                             |                                                 |                             |
| 11     | 15  | 2950                    | 160M         | 92,6         | 92,6        | 91,6        | 89,0         | 86,0        | 79,5        | 19,3         | 950             | 3,628        | 240             | 195        | 330           | 0,192                                       | 87                                              | 117                         |
| 15     | 20  | 2950                    | 160M         | 93,3         | 92,9        | 92,9        | 89,0         | 86,0        | 79,0        | 26,1         | 980             | 4,947        | 265             | 215        | 355           | 0,218                                       | 87                                              | 129                         |
| 18,5   | 25  | 2950                    | 160L         | 93,7         | 93,4        | 92,9        | 88,0         | 84,5        | 76,5        | 32,4         | 930             | 6,102        | 270             | 215        | 350           | 0,250                                       | 87                                              | 136                         |
| 22     | 30  | 2950                    | 180M         | 94,0         | 93,1        | 92,6        | 90,0         | 87,5        | 80,0        | 37,5         | 950             | 7,256        | 290             | 230        | 350           | 0,330                                       | 88                                              | 174                         |
| 30     | 40  | 2960                    | 200L         | 94,5         | 94,5        | 94,0        | 93,0         | 92,5        | 91,0        | 49,3         | 780             | 9,861        | 155             | 135        | 265           | 1,074                                       | 90                                              | 270                         |
| 37     | 50  | 2965                    | 200L         | 94,8         | 95,0        | 94,5        | 93,0         | 92,5        | 89,5        | 60,6         | 880             | 12,14        | 180             | 155        | 295           | 1,187                                       | 90                                              | 318                         |
| 45     | 60  | 2965                    | 225M         | 95,0         | 94,9        | 94,4        | 92,0         | 91,5        | 88,5        | 74,3         | 745             | 14,77        | 140             | 125        | 270           | 1,345                                       | 92                                              | 360                         |
| 55     | 75  | 2970                    | 250M         | 95,3         | 94,9        | 93,9        | 90,0         | 88,5        | 84,0        | 92,6         | 890             | 18,02        | 155             | 140        | 330           | 2,111                                       | 92                                              | 498                         |
| 75     | 100 | 2975                    | 280S         | 95,6         | 95,3        | 94,3        | 90,0         | 88,0        | 82,0        | 126          | 820             | 24,57        | 140             | 120        | 280           | 3,600                                       | 94                                              | 588                         |
| 90     | 125 | 2975                    | 280M         | 95,8         | 95,6        | 94,9        | 90,0         | 88,0        | 82,0        | 151          | 820             | 29,48        | 140             | 120        | 280           | 4,000                                       | 94                                              | 650                         |
| 110    | 150 | 2975                    | 315S         | 96,0         | 95,7        | 94,7        | 90,0         | 88,0        | 82,0        | 184          | 820             | 36,03        | 140             | 120        | 280           | 5,200                                       | 98                                              | 930                         |
| 132    | 175 | 2975                    | 315M         | 96,2         | 96,0        | 95,1        | 90,5         | 89,5        | 85,0        | 219          | 820             | 43,24        | 140             | 120        | 280           | 6,000                                       | 98                                              | 1030                        |
| 160    | 215 | 2975                    | 315L         | 96,3         | 96,1        | 95,3        | 90,5         | 89,5        | 86,0        | 265          | 800             | 52,41        | 140             | 120        | 250           | 7,600                                       | 98                                              | 1260                        |
| 200    | 270 | 2975                    | 315L         | 96,5         | 96,4        | 95,8        | 90,5         | 89,5        | 87,0        | 331          | 800             | 65,51        | 140             | 120        | 250           | 8,400                                       | 98                                              | 1380                        |
| 250    | 335 | 2975                    | 355M         | 96,5         | 96,4        | 95,8        | 90,0         | 89,0        | 85,0        | 415          | 800             | 81,89        | 130             | 115        | 230           | 13,60                                       | 100                                             | 1900                        |
| 315    | 420 | 2975                    | 355L         | 96,5         | 96,4        | 95,8        | 90,0         | 89,0        | 85,5        | 524          | 800             | 103,2        | 130             | 115        | 230           | 15,60                                       | 100                                             | 2200                        |

# AESV4S/AESU4S IE4 - 380V 50Hz

4 Pole

| Output |     | Full Load<br>rpm | Frame No. | Efficiency |          |          | Power Factor |          |          | Current   |              | Torque    |              |         |            | Rotor<br>GD²<br><br>(kg-m²) | Noise Sound Power<br>No-load<br><br>dB(A) | Approx. Weight<br><br>kg |
|--------|-----|------------------|-----------|------------|----------|----------|--------------|----------|----------|-----------|--------------|-----------|--------------|---------|------------|-----------------------------|-------------------------------------------|--------------------------|
| kW     | HP  |                  |           | Full Load  | 3/4 Load | 1/2 Load | Full Load    | 3/4 Load | 1/2 Load | Full Load | Locked Rotor | Full Load | Locked Rotor | Pull Up | Break Down |                             |                                           |                          |
|        |     |                  |           |            |          |          |              |          |          |           |              |           |              |         |            |                             |                                           |                          |
| 11     | 15  | 1470             | 160M      | 93,3       | 92,7     | 92,7     | 84,0         | 80,0     | 70,0     | 20,3      | 860          | 7,281     | 265          | 215     | 295        | 0,407                       | 77                                        | 132                      |
| 15     | 20  | 1470             | 160L      | 93,9       | 93,9     | 93,4     | 85,0         | 82,0     | 73,5     | 27,1      | 780          | 9,929     | 235          | 190     | 260        | 0,506                       | 77                                        | 142                      |
| 18,5   | 25  | 1480             | 180M      | 94,2       | 93,9     | 93,4     | 85,0         | 82,0     | 74,0     | 33,3      | 840          | 12,16     | 240          | 205     | 290        | 0,928                       | 80                                        | 205                      |
| 22     | 30  | 1480             | 180L      | 94,5       | 93,8     | 92,8     | 85,0         | 82,0     | 74,0     | 39,5      | 875          | 14,46     | 265          | 220     | 305        | 1,005                       | 80                                        | 214                      |
| 30     | 40  | 1480             | 200L      | 94,9       | 94,4     | 93,9     | 85,0         | 81,0     | 73,0     | 53,7      | 780          | 19,72     | 220          | 185     | 275        | 1,649                       | 83                                        | 274                      |
| 37     | 50  | 1480             | 225S      | 95,2       | 94,9     | 94,4     | 88,0         | 85,0     | 77,5     | 63,7      | 795          | 24,33     | 210          | 185     | 265        | 3,186                       | 84                                        | 352                      |
| 45     | 60  | 1480             | 225M      | 95,4       | 94,8     | 94,3     | 88,0         | 85,0     | 78,0     | 77,4      | 780          | 29,58     | 210          | 185     | 260        | 3,760                       | 84                                        | 394                      |
| 55     | 75  | 1480             | 250M      | 95,7       | 95,9     | 95,4     | 87,0         | 84,0     | 76,0     | 95,3      | 885          | 36,16     | 185          | 170     | 320        | 5,393                       | 85                                        | 535                      |
| 75     | 100 | 1488             | 280S      | 96,0       | 95,8     | 95,0     | 87,5         | 84,0     | 75,0     | 129       | 800          | 49,12     | 160          | 140     | 260        | 8,000                       | 88                                        | 657                      |
| 90     | 125 | 1488             | 280M      | 96,1       | 95,8     | 95,0     | 87,5         | 84,0     | 75,0     | 154       | 800          | 58,94     | 160          | 140     | 260        | 9,200                       | 88                                        | 725                      |
| 110    | 150 | 1488             | 315S      | 96,3       | 96,1     | 95,3     | 87,5         | 84,0     | 75,0     | 188       | 740          | 72,04     | 180          | 160     | 260        | 17,60                       | 94                                        | 960                      |
| 132    | 175 | 1488             | 315M      | 96,4       | 96,2     | 95,5     | 87,5         | 84,0     | 75,0     | 226       | 740          | 86,45     | 180          | 160     | 260        | 19,60                       | 94                                        | 1050                     |
| 160    | 215 | 1488             | 315L      | 96,6       | 96,4     | 95,7     | 87,5         | 84,0     | 75,0     | 273       | 760          | 104,8     | 200          | 180     | 260        | 22,80                       | 94                                        | 1400                     |
| 200    | 270 | 1488             | 315L      | 96,7       | 96,6     | 96,0     | 88,0         | 84,5     | 76,5     | 339       | 760          | 131,0     | 200          | 180     | 260        | 25,20                       | 94                                        | 1530                     |
| 250    | 335 | 1488             | 355M      | 96,7       | 96,6     | 96,0     | 89,0         | 87,0     | 81,0     | 419       | 780          | 163,7     | 150          | 130     | 260        | 35,60                       | 95                                        | 2140                     |
| 315    | 420 | 1488             | 355L      | 96,7       | 96,6     | 96,2     | 89,0         | 87,0     | 81,0     | 528       | 780          | 206,3     | 150          | 130     | 260        | 39,60                       | 95                                        | 2400                     |

# AESV4S/AESU4S IE4 - 380V 50Hz

6 Pole

| OUTPUT |     | FULL<br>LOAD<br><br>rpm | FRAME<br>NO. | EFFICIENCY              |                        |                        | POWER FACTOR            |                        |                        | CURRENT                 |                             | TORQUE                     |                               |                          |                             | ROTOR<br><br>GD <sup>2</sup><br><br>(kg-m <sup>2</sup> ) | NOISE<br>SOUND<br>POWER<br>NO-LOAD<br><br>dB(A) | APPROX.<br>WEIGHT<br><br>kg |
|--------|-----|-------------------------|--------------|-------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|-----------------------------|----------------------------|-------------------------------|--------------------------|-----------------------------|----------------------------------------------------------|-------------------------------------------------|-----------------------------|
| kW     | HP  |                         |              | FULL<br>LOAD<br><br>(%) | 3/4<br>LOAD<br><br>(%) | 1/2<br>LOAD<br><br>(%) | FULL<br>LOAD<br><br>(%) | 3/4<br>LOAD<br><br>(%) | 1/2<br>LOAD<br><br>(%) | FULL<br>LOAD<br><br>(A) | LOCKED<br>ROTOR<br><br>%FLC | FULL<br>LOAD<br><br>(kg-m) | LOCKED<br>ROTOR<br><br>(%FLT) | PULL<br>UP<br><br>(%FLT) | BREAK<br>DOWN<br><br>(%FLT) |                                                          |                                                 |                             |
|        |     |                         |              |                         |                        |                        |                         |                        |                        |                         |                             |                            |                               |                          |                             |                                                          |                                                 |                             |
| 11     | 15  | 970                     | 160L         | 92,3                    | 92,0                   | 92,0                   | 78,0                    | 72,5                   | 61,5                   | 22,1                    | 800                         | 11,03                      | 300                           | 260                      | 290                         | 0,700                                                    | 73                                              | 153                         |
| 15     | 20  | 980                     | 180L         | 92,9                    | 93,0                   | 93,5                   | 84,0                    | 80,0                   | 71,0                   | 27,7                    | 800                         | 14,89                      | 275                           | 230                      | 290                         | 1,782                                                    | 77                                              | 218                         |
| 18,5   | 25  | 980                     | 200L         | 93,4                    | 94,0                   | 93,0                   | 86,5                    | 84,0                   | 74,0                   | 33,1                    | 645                         | 18,37                      | 200                           | 165                      | 230                         | 2,791                                                    | 80                                              | 292                         |
| 22     | 30  | 980                     | 200L         | 93,7                    | 93,8                   | 92,8                   | 85,5                    | 82,0                   | 74,0                   | 39,6                    | 695                         | 21,84                      | 220                           | 180                      | 245                         | 3,023                                                    | 80                                              | 315                         |
| 30     | 40  | 980                     | 225M         | 94,2                    | 94,4                   | 94,4                   | 85,0                    | 82,5                   | 75,0                   | 54,1                    | 725                         | 29,79                      | 225                           | 190                      | 245                         | 4,559                                                    | 80                                              | 381                         |
| 37     | 50  | 985                     | 250M         | 94,5                    | 94,9                   | 94,9                   | 85,0                    | 81,5                   | 73,0                   | 66,5                    | 740                         | 36,55                      | 175                           | 165                      | 275                         | 6,011                                                    | 82                                              | 498                         |
| 45     | 60  | 988                     | 280S         | 94,8                    | 94,8                   | 94,2                   | 85,0                    | 82,0                   | 74,0                   | 80,6                    | 720                         | 44,38                      | 180                           | 160                      | 250                         | 10,80                                                    | 85                                              | 786                         |
| 55     | 75  | 988                     | 280M         | 95,1                    | 95,1                   | 94,8                   | 85,5                    | 82,0                   | 74,0                   | 97,6                    | 720                         | 54,25                      | 180                           | 160                      | 250                         | 12,80                                                    | 85                                              | 895                         |
| 75     | 100 | 990                     | 315S         | 95,4                    | 95,3                   | 94,5                   | 85,5                    | 82,0                   | 74,0                   | 133                     | 720                         | 73,82                      | 200                           | 180                      | 260                         | 23,20                                                    | 89                                              | 1075                        |
| 90     | 125 | 990                     | 315M         | 95,6                    | 95,5                   | 94,8                   | 85,5                    | 82,0                   | 74,0                   | 159                     | 720                         | 88,59                      | 200                           | 180                      | 260                         | 26,00                                                    | 89                                              | 1200                        |
| 110    | 150 | 990                     | 315L         | 95,8                    | 95,8                   | 95,3                   | 85,5                    | 82,5                   | 74,0                   | 194                     | 720                         | 108,3                      | 140                           | 120                      | 240                         | 30,40                                                    | 89                                              | 1410                        |
| 132    | 175 | 990                     | 315L         | 96,0                    | 96,0                   | 95,3                   | 85,5                    | 82,5                   | 75,0                   | 232                     | 720                         | 129,9                      | 140                           | 120                      | 240                         | 34,40                                                    | 89                                              | 1520                        |
| 160    | 215 | 990                     | 355M         | 96,2                    | 96,0                   | 95,3                   | 85,0                    | 81,5                   | 72,5                   | 282                     | 720                         | 157,5                      | 140                           | 120                      | 250                         | 35,00                                                    | 94                                              | 1740                        |
| 200    | 270 | 990                     | 355M         | 96,3                    | 96,2                   | 95,6                   | 85,0                    | 81,5                   | 72,5                   | 353                     | 720                         | 196,9                      | 140                           | 120                      | 250                         | 40,00                                                    | 94                                              | 1920                        |
| 250    | 335 | 990                     | 355L         | 96,5                    | 96,4                   | 95,8                   | 85,5                    | 82,0                   | 73,0                   | 437                     | 750                         | 246,1                      | 160                           | 140                      | 250                         | 49,00                                                    | 94                                              | 2240                        |

# AESV4S-N/AESU4S-N - 460V 60Hz

2 Pole

| OUTPUT |      | FULL<br>LOAD<br><br>rpm | FRAME<br>NO. | EFFICIENCY              |                        |                        | POWER FACTOR            |                        |                        | CURRENT                 |                             | TORQUE                     |                               |                          |                             | ROTOR<br><br>GD²<br><br>(kg-m²) | APPROX<br>WEIGHT<br><br>kg |
|--------|------|-------------------------|--------------|-------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|-----------------------------|----------------------------|-------------------------------|--------------------------|-----------------------------|---------------------------------|----------------------------|
| kW     | HP   |                         |              | FULL<br>LOAD<br><br>(%) | 3/4<br>LOAD<br><br>(%) | 1/2<br>LOAD<br><br>(%) | FULL<br>LOAD<br><br>(%) | 3/4<br>LOAD<br><br>(%) | 1/2<br>LOAD<br><br>(%) | FULL<br>LOAD<br><br>(A) | LOCKED<br>ROTOR<br><br>%FLC | FULL<br>LOAD<br><br>(kg-m) | LOCKED<br>ROTOR<br><br>(%FLT) | PULL<br>UP<br><br>(%FLT) | BREAK<br>DOWN<br><br>(%FLT) |                                 |                            |
|        |      |                         |              |                         |                        |                        |                         |                        |                        |                         |                             |                            |                               |                          |                             |                                 |                            |
| 12,7   | 17   | 3544                    | 160M         | 91,5                    | 91,4                   | 90,2                   | 89,1                    | 87,2                   | 82,4                   | 19,6                    | 136                         | 3,49                       | 216                           | 205                      | 323                         | 0,192                           | 117                        |
| 17,3   | 23   | 3552                    | 160M         | 92,4                    | 92,4                   | 91,8                   | 89,0                    | 86,5                   | 80,4                   | 26,4                    | 248                         | 4,75                       | 280                           | 216                      | 349                         | 0,218                           | 129                        |
| 21,3   | 28,5 | 3553                    | 160L         | 93,0                    | 92,9                   | 91,8                   | 88,5                    | 85,1                   | 78,2                   | 32,5                    | 303                         | 5,84                       | 293                           | 225                      | 362                         | 0,250                           | 136                        |
| 25,3   | 34   | 3553                    | 180M         | 93,0                    | 93,0                   | 92,9                   | 90,5                    | 87,5                   | 80,6                   | 37,7                    | 351                         | 6,94                       | 310                           | 240                      | 362                         | 0,330                           | 174                        |
| 34,5   | 46   | 3560                    | 200L         | 93,3                    | 93,5                   | 92,2                   | 92,9                    | 92,3                   | 89,6                   | 50,0                    | 384                         | 9,44                       | 151                           | 125                      | 284                         | 1,074                           | 270                        |
| 42,6   | 57   | 3570                    | 200L         | 93,9                    | 93,9                   | 93,6                   | 94,1                    | 93,3                   | 90,2                   | 60,5                    | 521                         | 11,63                      | 181                           | 155                      | 328                         | 1,187                           | 318                        |
| 52     | 69,5 | 3570                    | 225M         | 94,5                    | 94,5                   | 94,2                   | 91,2                    | 90,5                   | 87,2                   | 75,7                    | 537                         | 14,19                      | 155                           | 130                      | 302                         | 1,345                           | 360                        |
| 63     | 84,5 | 3573                    | 250M         | 94,5                    | 94,2                   | 93,0                   | 89,9                    | 88,1                   | 83,5                   | 93,1                    | 765                         | 17,18                      | 155                           | 130                      | 315                         | 2,111                           | 498                        |
| 86     | 115  | 3570                    | 280S         | 95,0                    | 94,5                   | 93,1                   | 90,5                    | 88,5                   | 82,5                   | 126                     | 1000                        | 23,48                      | 140                           | 120                      | 300                         | 2,400                           | 588                        |
| 104    | 140  | 3570                    | 280M         | 95,4                    | 95,0                   | 93,8                   | 91,0                    | 89,0                   | 83,5                   | 150                     | 1220                        | 28,39                      | 140                           | 120                      | 300                         | 2,800                           | 650                        |
| 127    | 170  | 3570                    | 315S         | 95,6                    | 95,0                   | 93,8                   | 91,0                    | 89,5                   | 84,0                   | 183                     | 1400                        | 34,67                      | 140                           | 120                      | 270                         | 4,800                           | 930                        |
| 152    | 204  | 3570                    | 315M         | 95,8                    | 95,3                   | 94,2                   | 91,5                    | 90,0                   | 86,0                   | 218                     | 1700                        | 41,49                      | 140                           | 120                      | 270                         | 5,600                           | 1.030                      |
| 184    | 247  | 3575                    | 315L         | 96,2                    | 95,9                   | 95,0                   | 91,5                    | 91,0                   | 88,0                   | 262                     | 2100                        | 50,16                      | 125                           | 105                      | 230                         | 7,600                           | 1.260                      |
| 230    | 308  | 3575                    | 315L         | 96,2                    | 96,0                   | 95,1                   | 91,5                    | 91,0                   | 88,0                   | 328                     | 2650                        | 62,69                      | 125                           | 105                      | 230                         | 8,400                           | 1.380                      |
| 288    | 385  | 3575                    | 355M         | 96,2                    | 96,0                   | 95,1                   | 90,5                    | 89,0                   | 85,0                   | 415                     | 3250                        | 78,50                      | 125                           | 105                      | 230                         | 13,60                           | 1.900                      |
| 362    | 485  | 3575                    | 355L         | 96,2                    | 96,0                   | 95,2                   | 91,0                    | 90,0                   | 86,0                   | 519                     | 4000                        | 98,68                      | 125                           | 105                      | 230                         | 15,60                           | 2.200                      |

# AESV4S-N/AESU4S-N - 460V 60Hz

4 Pole

| OUTPUT |      | FULL<br>LOAD<br><br>rpm | FRAME<br>NO. | EFFICIENCY              |                        |                        | POWER FACTOR            |                        |                        | CURRENT                 |                             | TORQUE                     |                               |                          |                             | ROTOR<br><br>GD²<br><br>(kg·m²) | APPROX.<br>WEIGHT<br><br>kg |
|--------|------|-------------------------|--------------|-------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|-----------------------------|----------------------------|-------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------------|
| kW     | HP   |                         |              | FULL<br>LOAD<br><br>(%) | 3/4<br>LOAD<br><br>(%) | 1/2<br>LOAD<br><br>(%) | FULL<br>LOAD<br><br>(%) | 3/4<br>LOAD<br><br>(%) | 1/2<br>LOAD<br><br>(%) | FULL<br>LOAD<br><br>(A) | LOCKED<br>ROTOR<br><br>%FLC | FULL<br>LOAD<br><br>(kg·m) | LOCKED<br>ROTOR<br><br>(%FLT) | PULL<br>UP<br><br>(%FLT) | BREAK<br>DOWN<br><br>(%FLT) |                                 |                             |
|        |      |                         |              |                         |                        |                        |                         |                        |                        |                         |                             |                            |                               |                          |                             |                                 |                             |
| 12,7   | 17   | 1776                    | 160M         | 93,6                    | 93,6                   | 93,0                   | 84,1                    | 81,0                   | 72,5                   | 20,2                    | 170                         | 6,97                       | 293                           | 225                      | 310                         | 0,407                           | 132                         |
| 17,3   | 23   | 1775                    | 160L         | 94,1                    | 94,1                   | 94,0                   | 85,5                    | 84,0                   | 77,0                   | 27,0                    | 210                         | 9,50                       | 250                           | 192                      | 259                         | 0,506                           | 142                         |
| 21,3   | 28,5 | 1782                    | 180M         | 94,5                    | 94,5                   | 94,5                   | 85,0                    | 82,1                   | 76,0                   | 33,3                    | 269                         | 11,65                      | 284                           | 219                      | 289                         | 0,928                           | 205                         |
| 25,3   | 34   | 1779                    | 180L         | 94,5                    | 94,5                   | 94,1                   | 85,6                    | 83,2                   | 76,8                   | 39,3                    | 306                         | 13,86                      | 254                           | 196                      | 259                         | 1,005                           | 214                         |
| 34,5   | 46   | 1779                    | 200L         | 95,0                    | 95,0                   | 94,9                   | 85,4                    | 82,5                   | 75,0                   | 53,4                    | 360                         | 18,90                      | 203                           | 156                      | 203                         | 1,649                           | 274                         |
| 42,6   | 57   | 1782                    | 225S         | 94,8                    | 94,8                   | 94,0                   | 88,5                    | 85,9                   | 79,0                   | 63,7                    | 432                         | 23,30                      | 164                           | 126                      | 241                         | 3,186                           | 352                         |
| 52     | 69,5 | 1782                    | 225M         | 95,2                    | 95,1                   | 94,4                   | 86,3                    | 82,9                   | 74,3                   | 79,4                    | 580                         | 28,44                      | 168                           | 129                      | 207                         | 3,760                           | 394                         |
| 63     | 84,5 | 1783                    | 250M         | 95,6                    | 95,0                   | 94,8                   | 88,1                    | 85,1                   | 78,3                   | 93,9                    | 780                         | 34,43                      | 198                           | 153                      | 293                         | 5,393                           | 535                         |
| 86     | 115  | 1785                    | 280S         | 96,2                    | 96,0                   | 95,3                   | 87,0                    | 83,0                   | 74,0                   | 129                     | 950                         | 46,95                      | 180                           | 150                      | 260                         | 6,400                           | 657                         |
| 104    | 140  | 1785                    | 280M         | 96,2                    | 96,0                   | 95,3                   | 87,5                    | 83,5                   | 75,0                   | 155                     | 1200                        | 56,78                      | 180                           | 150                      | 260                         | 7,600                           | 725                         |
| 127    | 170  | 1785                    | 315S         | 96,4                    | 96,1                   | 95,3                   | 88,0                    | 84,5                   | 76,5                   | 188                     | 1550                        | 69,33                      | 180                           | 150                      | 260                         | 11,60                           | 960                         |
| 152    | 204  | 1785                    | 315M         | 96,5                    | 96,3                   | 95,4                   | 88,0                    | 85,5                   | 78,0                   | 225                     | 1800                        | 82,98                      | 180                           | 150                      | 260                         | 12,80                           | 1.050                       |
| 184    | 247  | 1785                    | 315L         | 96,5                    | 96,3                   | 95,4                   | 88,0                    | 85,5                   | 78,0                   | 272                     | 2150                        | 100,5                      | 200                           | 170                      | 250                         | 21,20                           | 1.400                       |
| 230    | 308  | 1785                    | 315L         | 96,8                    | 96,5                   | 95,8                   | 88,0                    | 85,5                   | 78,0                   | 339                     | 2600                        | 125,6                      | 200                           | 170                      | 250                         | 25,20                           | 1.530                       |
| 288    | 385  | 1788                    | 355M         | 96,8                    | 96,6                   | 96,0                   | 89,0                    | 87,0                   | 82,0                   | 420                     | 3150                        | 157,0                      | 140                           | 120                      | 250                         | 31,20                           | 2.140                       |
| 362    | 485  | 1788                    | 355L         | 96,8                    | 96,7                   | 96,2                   | 89,0                    | 87,5                   | 83,0                   | 527                     | 3900                        | 197,3                      | 140                           | 120                      | 250                         | 35,60                           | 2.400                       |

# AESV4S-N/AESU4S-N - 460V 60Hz

6 Pole

| OUTPUT |      | FULL<br>LOAD<br>rpm | FRAME<br>NO. | EFFICIENCY          |                    |                    | POWER FACTOR        |                    |                    | CURRENT             |                        | TORQUE              |                         |                    |                       | ROTOR<br><br>GD <sup>2</sup><br>kg-m <sup>2</sup> | APPROX.<br>WEIGHT<br>kg |
|--------|------|---------------------|--------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|------------------------|---------------------|-------------------------|--------------------|-----------------------|---------------------------------------------------|-------------------------|
| kW     | HP   |                     |              | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 2/4<br>LOAD<br>(%) | FULL<br>LOAD<br>(%) | 3/4<br>LOAD<br>(%) | 2/4<br>LOAD<br>(%) | FULL<br>LOAD<br>(A) | LOCKED<br>ROTOR<br>(A) | FULL<br>LOAD<br>N-m | LOCKED<br>ROTOR<br>%FLT | PULL<br>UP<br>%FLT | BREAK<br>DOWN<br>%FLT |                                                   |                         |
| 12,7   | 17   | 1176                | 160L         | 92,1                | 92,5               | 92,2               | 79,1                | 73,5               | 62,6               | 21,9                | 140                    | 10,52               | 259                     | 199                | 259                   | 0,700                                             | 153                     |
| 17,3   | 23   | 1184                | 180L         | 92,2                | 93,7               | 93,3               | 82,5                | 79,0               | 69,2               | 28,5                | 194                    | 14,24               | 216                     | 166                | 216                   | 1,782                                             | 218                     |
| 21,3   | 28,5 | 1183                | 200L         | 93,6                | 93,9               | 93,5               | 88,0                | 86,0               | 80,5               | 32,5                | 183                    | 17,55               | 147                     | 113                | 168                   | 2,791                                             | 292                     |
| 25,3   | 34   | 1185                | 200L         | 93,8                | 94,0               | 93,2               | 87,2                | 85,0               | 78,5               | 38,8                | 266                    | 20,81               | 159                     | 123                | 220                   | 3,023                                             | 315                     |
| 34,5   | 46   | 1186                | 225M         | 94,3                | 94,7               | 94,3               | 86,4                | 84,0               | 78,5               | 53,1                | 342                    | 28,35               | 164                     | 126                | 198                   | 4,559                                             | 381                     |
| 42,6   | 57   | 1188                | 250M         | 94,4                | 95,0               | 94,7               | 84,8                | 82,3               | 73,9               | 66,8                | 430                    | 34,94               | 159                     | 123                | 207                   | 6,011                                             | 498                     |
| 52     | 69,5 | 1185                | 280S         | 94,9                | 94,8               | 94,0               | 85,5                | 82,0               | 74,0               | 80,4                | 580                    | 42,76               | 180                     | 150                | 250                   | 9,200                                             | 786                     |
| 63     | 84,5 | 1185                | 280M         | 95,1                | 95,0               | 94,4               | 85,5                | 82,5               | 75,0               | 97,2                | 680                    | 51,81               | 180                     | 150                | 250                   | 10,00                                             | 895                     |
| 86     | 115  | 1185                | 315S         | 95,5                | 95,4               | 94,8               | 86,0                | 83,5               | 76,0               | 131                 | 940                    | 70,72               | 200                     | 170                | 250                   | 15,60                                             | 1.075                   |
| 104    | 140  | 1185                | 315M         | 95,7                | 95,6               | 95,1               | 86,0                | 83,5               | 76,0               | 159                 | 1200                   | 85,52               | 200                     | 170                | 250                   | 18,40                                             | 1.200                   |
| 127    | 170  | 1186                | 315L         | 96,0                | 95,8               | 95,0               | 86,0                | 83,5               | 76,0               | 193                 | 1420                   | 104,4               | 140                     | 120                | 240                   | 30,40                                             | 1.410                   |
| 152    | 204  | 1186                | 315L         | 96,2                | 96,0               | 95,3               | 86,5                | 84,0               | 77,0               | 229                 | 1650                   | 124,9               | 140                     | 120                | 240                   | 34,40                                             | 1.520                   |
| 184    | 247  | 1188                | 355M         | 96,2                | 96,1               | 95,4               | 86,0                | 83,5               | 76,0               | 279                 | 1900                   | 150,9               | 120                     | 100                | 220                   | 35,00                                             | 1.740                   |
| 230    | 308  | 1188                | 355M         | 96,5                | 96,3               | 95,7               | 86,0                | 83,5               | 76,0               | 348                 | 2450                   | 188,7               | 120                     | 100                | 220                   | 39,20                                             | 1.920                   |
| 288    | 385  | 1188                | 355L         | 96,5                | 96,4               | 95,8               | 86,5                | 84,0               | 77,0               | 433                 | 3000                   | 236,2               | 130                     | 110                | 230                   | 48,40                                             | 2.240                   |



# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

### Frame 80M ~ 112M

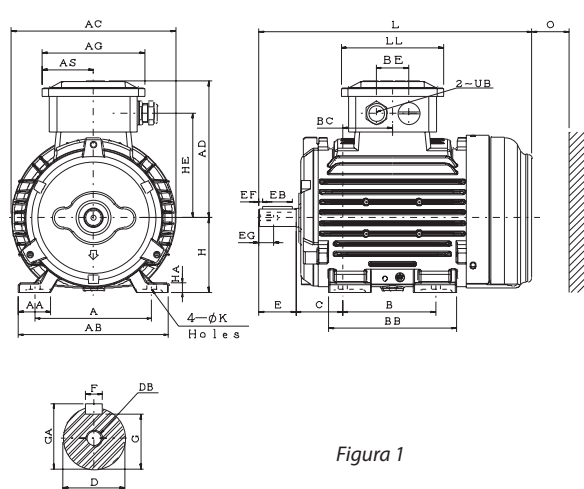


Figura 1

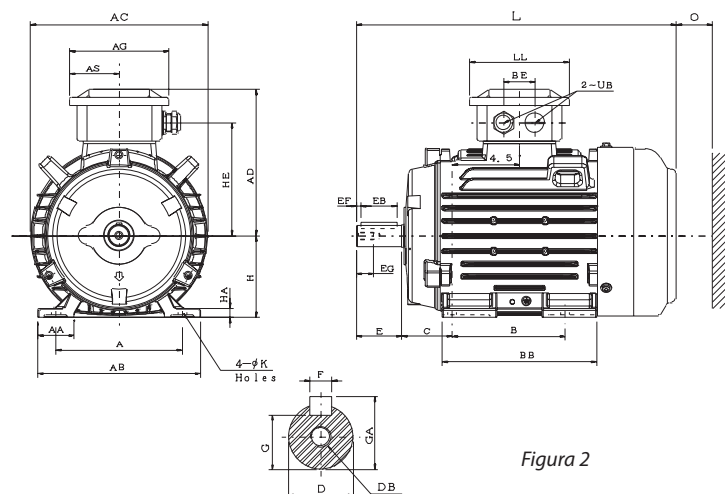


Figura 2

(Dimensioni in mm)

| Output (kW) |      |      |      | FRAME SIZE | FIG. NO. | A   | AA   | AB  | AC  | AD    | AG  | AS   | B   | B'  | BB  | BC   | BE | C  | H   | HA | HE    |
|-------------|------|------|------|------------|----------|-----|------|-----|-----|-------|-----|------|-----|-----|-----|------|----|----|-----|----|-------|
| 2P          | 4P   | 6P   | 8P   |            |          |     |      |     |     |       |     |      |     |     |     |      |    |    |     |    |       |
| 0.75        | 0.55 | 0.55 | 0.18 | 80M        | 1        | 125 | 34.5 | 161 | 177 | 152   | 109 | 54.5 | 100 | --- | 137 | 53.5 | 35 | 50 | 80  | 10 | 115   |
| 1.1         | 0.75 |      |      |            |          |     |      |     |     |       |     |      |     |     |     |      |    |    |     |    |       |
| 1.5         | 1.1  | 0.75 | 0.37 | 90S        | 2        | 140 | 40   | 180 | 197 | 162   | 109 | 54.5 | 100 | --- | 161 | 69.5 | 35 | 56 | 90  | 10 | 125   |
| 2.2         | 1.5  | 1.1  | 0.55 | 90L        |          | 140 | 40   | 180 | 197 | 162   | 109 | 54.5 | 125 | --- | 171 | 74.5 | 35 | 56 | 90  | 10 | 125   |
| 3           | 2.2  | 1.5  | 0.75 | 100L       |          | 160 | 40   | 200 | 219 | 178.5 | 125 | 62.5 | 140 | --- | 181 | 72.5 | 40 | 63 | 100 | 12 | 146   |
| 3.7         | 3.7  | 2.2  | 1.5  | 112M       |          | 190 | 45   | 235 | 235 | 191   | 125 | 62.5 | 140 | --- | 186 | 75   | 40 | 70 | 112 | 13 | 153.5 |
| 4           | 4    |      |      |            |          |     |      |     |     |       |     |      |     |     |     |      |    |    |     |    |       |

| FRAME SIZE | K  | L     | LL  | O  | UB      | SHAFT EXTENSION |    |    |    |    |   |      |      |     | BEARING   |                    |
|------------|----|-------|-----|----|---------|-----------------|----|----|----|----|---|------|------|-----|-----------|--------------------|
|            |    |       |     |    |         | D               | E  | EB | EF | EG | F | G    | GA   | DB  | DRIVE END | OPPOSITE DRIVE END |
| 80M        | 10 | 292   | 109 | 40 | M20X1.5 | 19              | 40 | 32 | 4  | 16 | 6 | 15.5 | 21.5 | M6  | 6204ZZC3  | 6203ZZC3           |
| 90S        | 10 | 344   | 109 | 40 | M20X1.5 | 24              | 50 | 40 | 5  | 19 | 8 | 20   | 27   | M8  | 6205ZZC3  | 6204ZZC3           |
| 90L        | 10 | 354   | 109 | 40 | M20X1.5 | 24              | 50 | 40 | 5  | 19 | 8 | 20   | 27   | M8  | 6205ZZC3  | 6204ZZC3           |
| 100L       | 12 | 391   | 125 | 50 | M25X1.5 | 28              | 60 | 50 | 5  | 22 | 8 | 24   | 31   | M10 | 6206ZZC3  | 6205ZZC3           |
| 112M       | 12 | 412.5 | 125 | 50 | M25X1.5 | 28              | 60 | 50 | 5  | 22 | 8 | 24   | 31   | M10 | 6306ZZC3  | 6305ZZC3           |

NOTE: 1.Tolerance of shaft end diameter D:j6  
2.Tolerance of shaft center high H: +0,-0.5

# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

Frame 132S ~ 132M

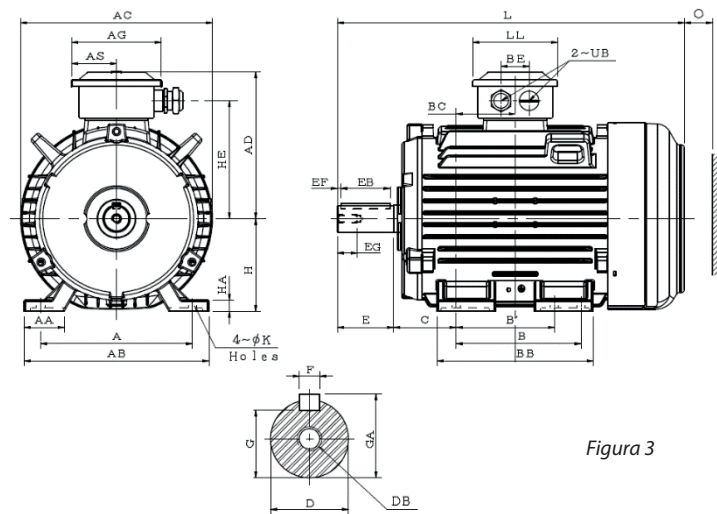


Figura 3

(Dimensioni in mm)

| Output (kW) |     |     |      | FRAME SIZE | FIG. NO. | A   | AA | AB  | AC  | AD    | AG  | AS   | B   | B'  | BB  | BC | BE | C  | H   | HA | HE  |
|-------------|-----|-----|------|------------|----------|-----|----|-----|-----|-------|-----|------|-----|-----|-----|----|----|----|-----|----|-----|
| 2P          | 4P  | 6P  | 8P   |            |          |     |    |     |     |       |     |      |     |     |     |    |    |    |     |    |     |
| 5.5         | 5.5 | 3   | 2.2- | 132S       | 3        | 216 | 57 | 263 | 273 | 208.5 | 125 | 62.5 | 140 | --- | 184 | 65 | 40 | 89 | 132 | 16 | 171 |
| ---         | 7.5 | 3.7 | 4    | 132M       |          | 216 | 57 | 263 | 273 | 208.5 | 125 | 62.5 | 178 | 140 | 222 | 84 | 40 | 89 | 132 | 16 | 171 |
|             |     | 5.5 | 3    |            |          |     |    |     |     |       |     |      |     |     |     |    |    |    |     |    |     |

| FRAME SIZE | K  | L   | LL  | O  | UB      | SHAFT EXTENSION |    |    |    |    |    |    |    |     | BEARING   |                    |
|------------|----|-----|-----|----|---------|-----------------|----|----|----|----|----|----|----|-----|-----------|--------------------|
|            |    |     |     |    |         | D               | E  | EB | EF | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 132S       | 12 | 456 | 125 | 50 | M25X1.5 | 38              | 80 | 70 | 5  | 28 | 10 | 33 | 41 | M12 | 6308ZZC3  | 6306ZZC3           |
| 132M       | 12 | 494 | 125 | 50 | M25X1.5 | 38              | 80 | 70 | 5  | 28 | 10 | 33 | 41 | M12 | 6308ZZC3  | 6306ZZC3           |

NOTE: 1.Tolerance of shaft end diameter D:K6  
2.Tolerance of shaft center high H: +0,-0.5

# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

### Frame 160M ~ 200L

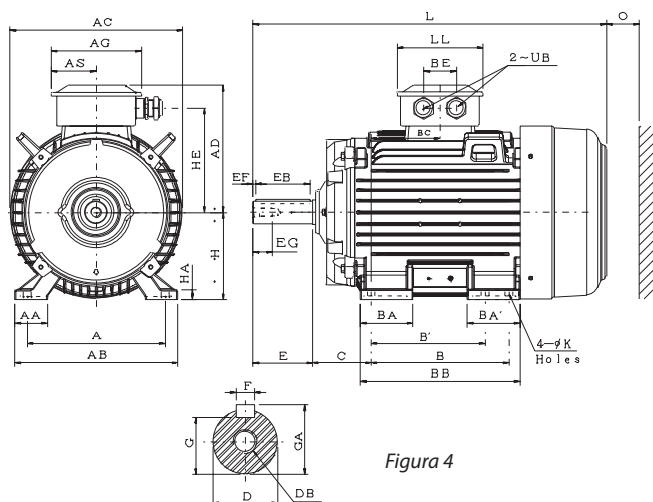


Figura 4

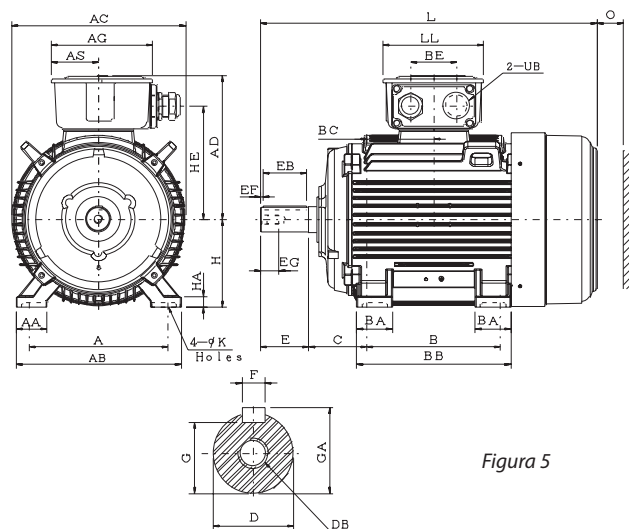


Figura 5

(Dimensioni in mm)

| Output (kW) |      |            |                 | FRAME SIZE | FIG. NO. | A   | AA | AB  | AC  | AD    | AG  | AS    | B   | B'  | BA  | BA' | BB  | BC    | BE  | C   | H   | HA |
|-------------|------|------------|-----------------|------------|----------|-----|----|-----|-----|-------|-----|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|----|
| 2P          | 4P   | 6P         | 8P              |            |          |     |    |     |     |       |     |       |     |     |     |     |     |       |     |     |     |    |
| 11<br>15    | 11   | 7.5        | 3.7<br>4<br>5.5 | 160M       | 4        | 254 | 60 | 300 | 317 | 237   | 166 | 83    | 210 | --- | 57  | 57  | 250 | 105   | 60  | 108 | 160 | 18 |
| 18.5        | 15   | 11         | 7.5             | 160L       |          | 254 | 60 | 300 | 317 | 237   | 166 | 83    | 254 | 210 | 97  | 97  | 294 | 127   | 60  | 108 | 160 | 18 |
| 22          | 18.5 | ---        | ---             | 180M       |          | 279 | 65 | 330 | 354 | 263.5 | 166 | 83    | 241 | --- | 65  | 65  | 292 | 120.5 | 60  | 121 | 180 | 20 |
| ---         | 22   | 15         | 11              | 180L       |          | 279 | 65 | 330 | 354 | 263.5 | 166 | 83    | 279 | 241 | 115 | 115 | 330 | 139.5 | 60  | 121 | 180 | 20 |
| 30<br>37    | 30   | 18.5<br>22 | 15              | 200L       | 5        | 318 | 70 | 378 | 398 | 329   | 231 | 110.5 | 305 | --- | 82  | 82  | 353 | 152.5 | 106 | 133 | 200 | 24 |

| FRAME SIZE | HE  | K    | L   | LL  | O  | UB      | SHAFT EXTENSION |     |     |    |    |    |      |      |     | BEARING   |                    |
|------------|-----|------|-----|-----|----|---------|-----------------|-----|-----|----|----|----|------|------|-----|-----------|--------------------|
|            |     |      |     |     |    |         | D               | E   | EB  | EF | EG | F  | G    | GA   | DB  | DRIVE END | OPPOSITE DRIVE END |
| 160M       | 195 | 14.5 | 608 | 158 | 60 | M32x1.5 | 42              | 110 | 100 | 5  | 36 | 12 | 37   | 45   | M16 | 6309ZZC3  | 6307ZZC3           |
| 160L       | 195 | 14.5 | 652 | 158 | 60 | M32x1.5 | 42              | 110 | 100 | 5  | 36 | 12 | 37   | 45   | M16 | 6309ZZC3  | 6307ZZC3           |
| 180M       | 221 | 14.5 | 672 | 158 | 70 | M32x1.5 | 48              | 110 | 100 | 5  | 36 | 14 | 42.5 | 51.5 | M16 | 6311ZZC3  | 6310ZZC3           |
| 180L       | 221 | 14.5 | 710 | 158 | 70 | M32x1.5 | 48              | 110 | 100 | 5  | 36 | 14 | 42.5 | 51.5 | M16 | 6311ZZC3  | 6310ZZC3           |
| 200L       | 259 | 18.5 | 770 | 231 | 80 | M50x1.5 | 55              | 110 | 100 | 5  | 42 | 16 | 49   | 59   | M20 | 6312ZZC3  | 6212ZZC3           |

NOTE: 1.Tolerance of shaft end diameter D:k6  
2.Tolerance of shaft center high H: +0,-0.5

# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

### Frame 225S ~ 250M

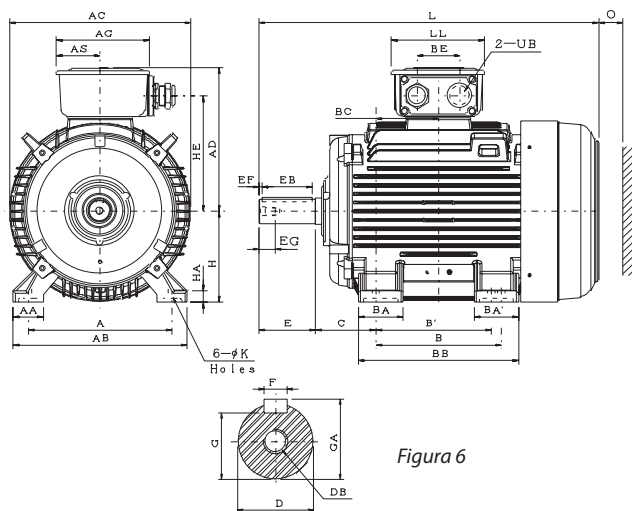


Figura 6

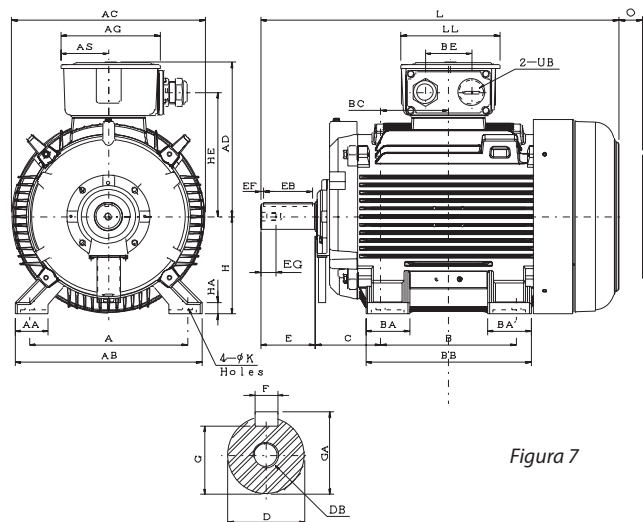


Figura 7

(Dimensioni in mm)

| Output (kW) |     |     |      | FRAME SIZE | FIG. NO. | A   | AA | AB  | AC  | AD  | AG  | AS    | B   | B'  | BA    | BA'   | BB  | BC    | BE  | C   | H   | HA |
|-------------|-----|-----|------|------------|----------|-----|----|-----|-----|-----|-----|-------|-----|-----|-------|-------|-----|-------|-----|-----|-----|----|
| 2P          | 4P  | 6P  | 8P   |            |          |     |    |     |     |     |     |       |     |     |       |       |     |       |     |     |     |    |
| ---         | 37  | --- | 18.5 | 225SC      | 6        | 356 | 75 | 431 | 449 | 355 | 231 | 110.5 | 286 | --- | 98.5  | 98.5  | 371 | 143   | 106 | 149 | 225 | 28 |
| 45          | --- | --- | ---  | 225MA      |          | 356 | 75 | 431 | 449 | 355 | 231 | 110.5 | 311 | 286 | 110   | 110   | 396 | 155.5 | 106 | 149 | 225 | 28 |
| ---         | 45  | 30  | 22   | 225MC      |          | 356 | 75 | 431 | 449 | 355 | 231 | 110.5 | 311 | 286 | 110   | 110   | 396 | 155.5 | 106 | 149 | 225 | 28 |
| 55          | --- | --- | ---  | 250MA      | 7        | 406 | 85 | 480 | 499 | 397 | 255 | 122.5 | 349 | --- | 112.5 | 112.5 | 425 | 174.5 | 119 | 168 | 250 | 30 |
| ---         | 55  | 37  | 30   | 250MC      |          | 406 | 85 | 480 | 499 | 397 | 255 | 122.5 | 349 | --- | 112.5 | 112.5 | 425 | 174.5 | 119 | 168 | 250 | 30 |

| FRAME SIZE | HE  | K    | L   | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING   |                    |
|------------|-----|------|-----|-----|-----|---------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|--------------------|
|            |     |      |     |     |     |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 225SC      | 285 | 18.5 | 816 | 231 | 90  | M50x1.5 | 60              | 140 | 125 | 7.5 | 42 | 18 | 53 | 64 | M20 | 6313ZZC3  | 6213ZZC3           |
| 225MA      | 285 | 18.5 | 811 | 231 | 90  | M50x1.5 | 55              | 110 | 100 | 5   | 42 | 16 | 49 | 59 | M20 | 6312ZZC3  | 6212ZZC3           |
| 225MC      | 285 | 18.5 | 841 | 231 | 90  | M50x1.5 | 60              | 140 | 125 | 7.5 | 42 | 18 | 53 | 64 | M20 | 6313ZZC3  | 6213ZZC3           |
| 250MA      | 319 | 24   | 921 | 255 | 105 | M63x1.5 | 60              | 140 | 125 | 7.5 | 42 | 18 | 53 | 64 | M20 | 6313-ZC3  | 6313-ZC3           |
| 250MC      | 319 | 24   | 921 | 255 | 105 | M63x1.5 | 65              | 140 | 125 | 7.5 | 42 | 18 | 58 | 69 | M20 | 6315-ZC3  | 6313-ZC3           |

NOTE: 1.Tolerance of shaft end diameter D:m6  
2.Tolerance of shaft center high H: +0,-0.5

# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

### Frame 280SA ~ 280MB

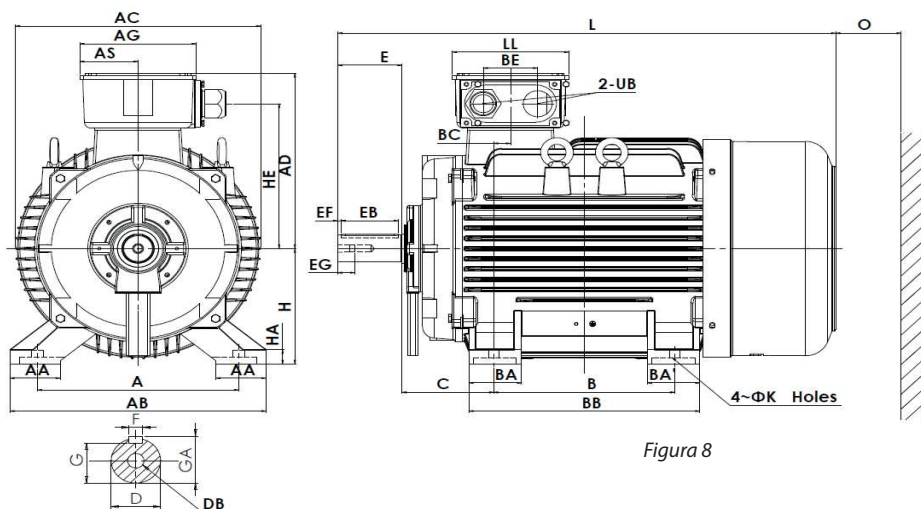


Figura 8

(Dimensioni in mm)

| Output (kW) |     |     |     | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS    | B   | BA  | BA' | BB  | BC | BE  | C   | H   | HA | HE    |
|-------------|-----|-----|-----|------------|----------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|----|-----|-----|-----|----|-------|
| 2P          | 4P  | 6P  | 8P  |            |          |     |     |     |     |     |     |       |     |     |     |     |    |     |     |     |    |       |
| 75          | --- | --- | --- | 280SA      | 8        | 457 | 110 | 560 | 546 | 433 | 255 | 122.5 | 368 | 110 | 110 | 455 | 48 | 119 | 190 | 280 | 35 | 354.5 |
| ---         | 75  | 45  | 37  | 280SB      |          | 457 | 110 | 560 | 546 | 433 | 255 | 122.5 | 368 | 110 | 110 | 455 | 48 | 119 | 190 | 280 | 35 | 354.5 |
| 90          | --- | --- | --- | 280MA      |          | 457 | 110 | 560 | 546 | 433 | 255 | 122.5 | 419 | 115 | 115 | 505 | 48 | 119 | 190 | 280 | 35 | 354.5 |
| ---         | 90  | 55  | 45  | 280MB      |          | 457 | 110 | 560 | 546 | 433 | 255 | 122.5 | 419 | 115 | 115 | 505 | 48 | 119 | 190 | 280 | 35 | 354.5 |

| FRAME SIZE | K  | L      | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |      |      |     | BEARING   |                    |
|------------|----|--------|-----|-----|---------|-----------------|-----|-----|-----|----|----|------|------|-----|-----------|--------------------|
|            |    |        |     |     |         | D               | E   | EB  | EF  | EG | F  | G    | GA   | DB  | DRIVE END | OPPOSITE DRIVE END |
| 280SA      | 24 | 1037.5 | 255 | 140 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58   | 69   | M20 | 6314C3    | 6314C3             |
| 280SB      | 24 | 1037.5 | 255 | 140 | M63X1.5 | 75              | 140 | 125 | 7.5 | 40 | 20 | 67.5 | 79.5 | M20 | 6318C3    | 6316C3             |
| 280MA      | 24 | 1087.5 | 255 | 140 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58   | 69   | M20 | 6314C3    | 6314C3             |
| 280MB      | 24 | 1087.5 | 255 | 140 | M63X1.5 | 75              | 140 | 125 | 7.5 | 40 | 20 | 67.5 | 79.5 | M20 | 6318C3    | 6316C3             |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of shaft center high H : +0, -1  
3. Tolerance of key width F : h9

# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

### Frame 315SA ~ 315MB

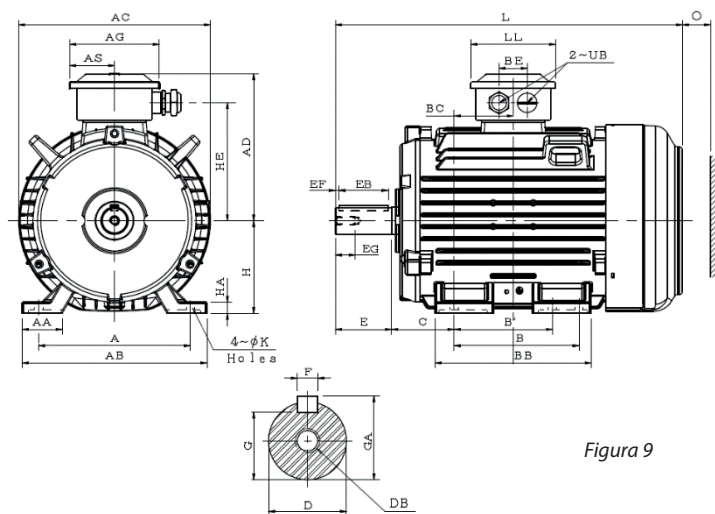


Figura 9

(Dimensioni in mm)

| Output (kW) |           |          |     | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS  | B   | BA  | BA' | BB  | BC | BE  | C   | H   | HA |
|-------------|-----------|----------|-----|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|
| 2P          | 4P        | 6P       | 8P  |            |          |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |    |
| 110         | ---       | ---      | --- | 315SA      | 9        | 508 | 115 | 615 | 560 | 490 | 336 | 163 | 406 | 180 | 180 | 580 | 53 | 140 | 216 | 315 | 35 |
| ---         | 110       | 75       | 55  | 315SB      |          | 508 | 115 | 615 | 560 | 490 | 336 | 163 | 406 | 180 | 180 | 580 | 53 | 140 | 216 | 315 | 35 |
| 132 (160)   | ---       | ---      | --- | 315MA      |          | 508 | 115 | 630 | 620 | 515 | 336 | 163 | 457 | 230 | 230 | 640 | 53 | 140 | 216 | 315 | 45 |
| ---         | 132 (160) | 90 (110) | 75  | 315MB      |          | 508 | 115 | 630 | 620 | 515 | 336 | 163 | 457 | 230 | 230 | 640 | 53 | 140 | 216 | 315 | 45 |

| FRAME<br>SIZE | HE  | K  | L    | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING   |                       |
|---------------|-----|----|------|-----|-----|---------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|-----------------------|
|               |     |    |      |     |     |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE<br>DRIVE END |
| 315SA         | 395 | 28 | 1162 | 322 | 180 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 6314C3                |
| 315SB         | 395 | 28 | 1192 | 322 | 180 | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3                |
| 315MA         | 420 | 28 | 1243 | 322 | 180 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 6314C3                |
| 315MB         | 420 | 28 | 1273 | 322 | 180 | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3                |

NOTE: 1.Tolerance of shaft end diameter D:m6  
2.Tolerance of shaft center high H: +0, -1  
3. Tolerance of key width F : h9

# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

### Frame 315LA ~ 315LB

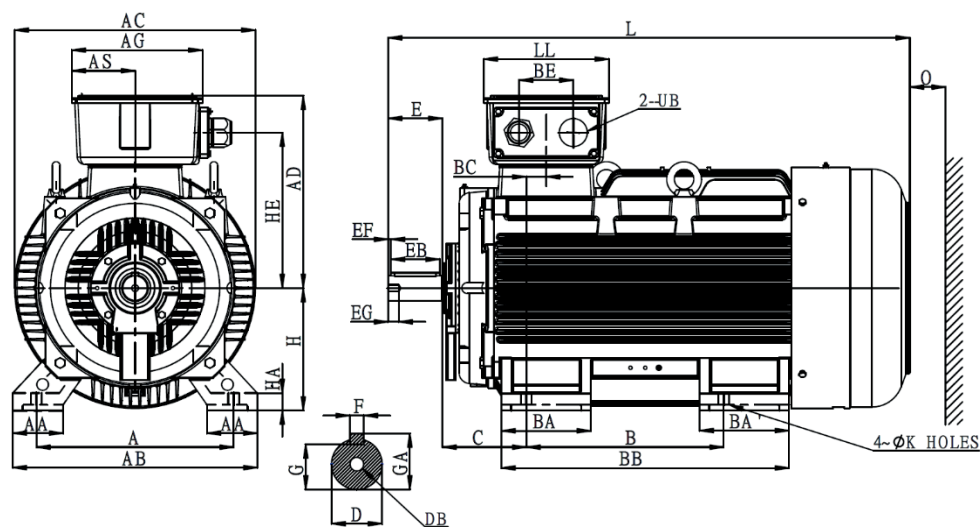


Figura 10

(Dimensioni in mm)

| Output (kW) |     |       |     | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS  | B   | BA  | BA' | BB  | BC | BE  | C   | H   | HA |
|-------------|-----|-------|-----|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|
| 2P          | 4P  | 6P    | 8P  |            |          |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |    |
| 160         | --- | ---   | --- | 315LA      | 10       | 508 | 130 | 630 | 620 | 515 | 336 | 163 | 508 | 230 | 230 | 740 | 53 | 140 | 216 | 315 | 45 |
| ---         | 160 | 110   | 90  | 315LB      |          | 508 | 130 | 630 | 620 | 515 | 336 | 163 | 508 | 230 | 230 | 740 | 53 | 140 | 216 | 315 | 45 |
| 200         | --- | 132   | 110 |            |          |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |    |
|             |     | (160) |     |            |          |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |    |

| FRAME SIZE | HE  | K  | L    | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING   |                    |
|------------|-----|----|------|-----|-----|---------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|--------------------|
|            |     |    |      |     |     |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 315LA      | 420 | 28 | 1346 | 322 | 180 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 6314C3             |
| 315LB      | 420 | 28 | 1376 | 322 | 180 | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3             |

NOTE: 1.Tolerance of shaft end diameter D: m6  
2.Tolerance of shaft center high H: +0, -1  
3. Tolerance of key width F: h9

# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

### Frame 315CA ~ 315DB

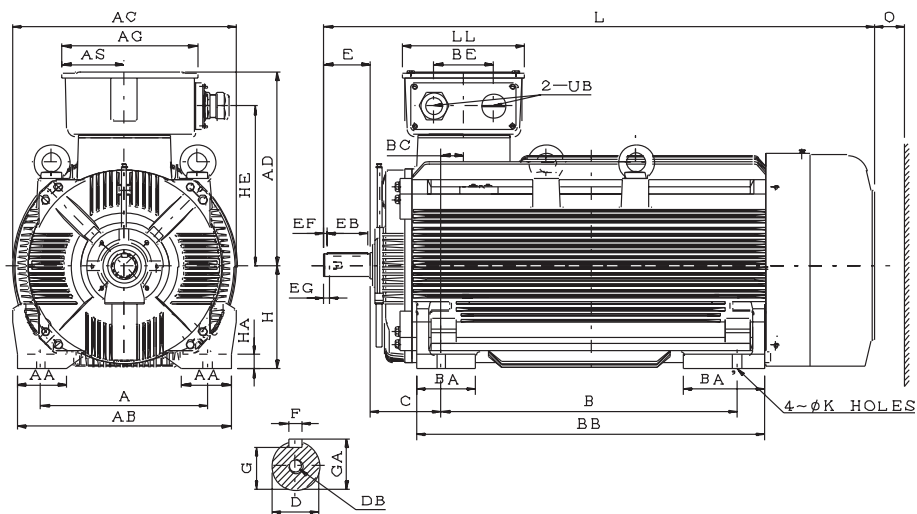


Figura 11

(Dimensioni in mm)

| Output (kW)    |                |                |                | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS  | B   | BA  | BA' | BB   | BC | BE  | C   | H   | HA |
|----------------|----------------|----------------|----------------|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|-----|-----|-----|----|
| 2P             | 4P             | 6P             | 8P             |            |          |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |    |
| (220)<br>(250) | ---            | ---            | ---            | 315CA      | 11       | 508 | 150 | 650 | 682 | 590 | 412 | 189 | 710 | 335 | 335 | 870  | 68 | 180 | 216 | 315 | 45 |
| ---            | (220)<br>(250) | (200)<br>(220) | (132)<br>(160) | 315CB      |          | 508 | 150 | 650 | 682 | 590 | 412 | 189 | 710 | 335 | 335 | 870  | 68 | 180 | 216 | 315 | 45 |
| (315)          | ---            | ---            | ---            | 315DA      |          | 508 | 150 | 650 | 682 | 590 | 412 | 189 | 900 | 180 | 250 | 1060 | 68 | 180 | 216 | 315 | 45 |
| ---            | (315)          | (250)          | (200)<br>(220) | 315DB      |          | 508 | 150 | 650 | 682 | 590 | 412 | 189 | 900 | 180 | 250 | 1060 | 68 | 180 | 216 | 315 | 45 |

| FRAME SIZE | HE  | K  | L    | LL  | O   | UB    | SHAFT EXTENSION |     |     |     |    |    |      |      |     | BEARING   |                    |
|------------|-----|----|------|-----|-----|-------|-----------------|-----|-----|-----|----|----|------|------|-----|-----------|--------------------|
|            |     |    |      |     |     |       | D               | E   | EB  | EF  | EG | F  | G    | GA   | DB  | DRIVE END | OPPOSITE DRIVE END |
| 315CA      | 485 | 28 | 1484 | 372 | 200 | M72X2 | 75              | 140 | 125 | 7.5 | 40 | 20 | 67.5 | 79.5 | M20 | 6316C3    | 6316C3             |
| 315CB      | 485 | 28 | 1514 | 372 | 200 | M72X2 | 95              | 170 | 160 | 5   | 48 | 25 | 86   | 100  | M24 | 6322C3    | 6322C3             |
| 315DA      | 485 | 28 | 1674 | 372 | 200 | M72X2 | 75              | 140 | 125 | 7.5 | 40 | 20 | 67.5 | 79.5 | M20 | 6316C3    | 6316C3             |
| 315DB      | 485 | 28 | 1704 | 372 | 200 | M72X2 | 95              | 170 | 160 | 5   | 48 | 25 | 86   | 100  | M24 | 6322C3    | 6322C3             |

NOTE: 1.Tolerance of shaft end diameter D:m6  
2.Tolerance of shaft center high H: +0, -1  
3. Tolerance of key width F : h9



# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

### Frame 355MA ~ 355LB

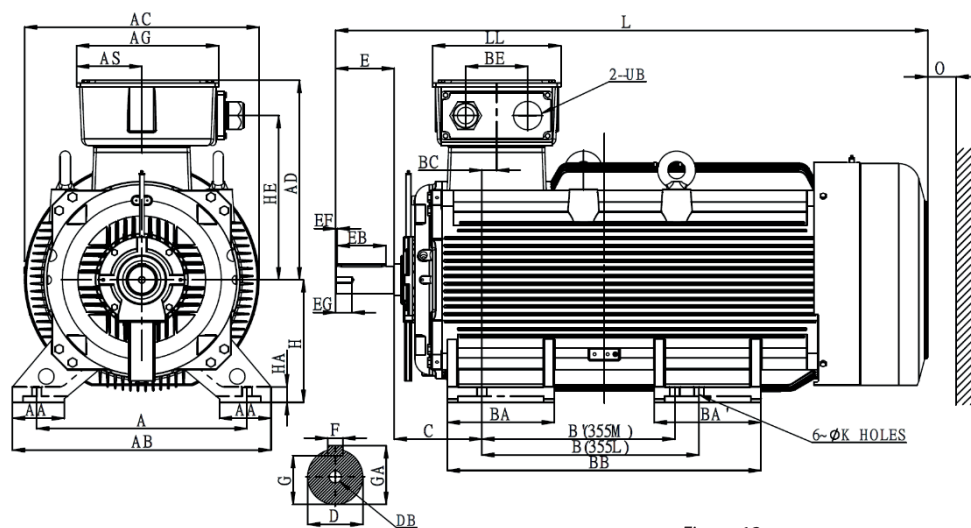


Figura 12

(Dimensioni in mm)

| Output (kW) |     |     |     | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS  | B   | B'  | BA  | BA' | BB  | BC | BE  | C   | H   | HA |
|-------------|-----|-----|-----|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|
| 2P          | 4P  | 6P  | 8P  |            |          |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |    |
| 220         | --- | --- | --- | 355MA      | 12       | 610 | 150 | 750 | 682 | 585 | 412 | 189 | --- | 560 | 310 | 310 | 910 | 43 | 180 | 254 | 355 | 45 |
| 250         | --- | --- | --- | 355MA      |          | 610 | 150 | 750 | 682 | 585 | 412 | 189 | --- | 560 | 310 | 310 | 910 | 43 | 180 | 254 | 355 | 45 |
| ---         | 220 | 160 | 132 | 355MB      |          | 610 | 150 | 750 | 682 | 585 | 412 | 189 | --- | 560 | 310 | 310 | 910 | 43 | 180 | 254 | 355 | 45 |
| 250         | 220 | 250 | 160 | 355MB      |          | 610 | 150 | 750 | 682 | 585 | 412 | 189 | --- | 560 | 310 | 310 | 910 | 43 | 180 | 254 | 355 | 45 |
| 315         | --- | --- | --- | 355LA      | 12       | 610 | 150 | 750 | 682 | 585 | 412 | 189 | 630 | --- | 310 | 310 | 910 | 43 | 180 | 254 | 355 | 45 |
| ---         | 315 | 250 | 200 | 355LB      |          | 610 | 150 | 750 | 682 | 585 | 412 | 189 | 630 | --- | 310 | 310 | 910 | 43 | 180 | 254 | 355 | 45 |
| ---         | 315 | 250 | 200 | 355LB      |          | 610 | 150 | 750 | 682 | 585 | 412 | 189 | 630 | --- | 310 | 310 | 910 | 43 | 180 | 254 | 355 | 45 |

| FRAME SIZE | HE  | K  | L    | LL  | O   | UB    | SHAFT EXTENSION |     |     |    |    |    |    |     |     | BEARING   |                    |
|------------|-----|----|------|-----|-----|-------|-----------------|-----|-----|----|----|----|----|-----|-----|-----------|--------------------|
|            |     |    |      |     |     |       | D               | E   | EB  | EF | EG | F  | G  | GA  | DB  | DRIVE END | OPPOSITE DRIVE END |
| 355MA      | 480 | 28 | 1717 | 372 | 230 | M72X2 | 80              | 170 | 140 | 5  | 40 | 22 | 71 | 85  | M20 | 6317C3    | 6317C3             |
| 355MB      | 480 | 28 | 1757 | 372 | 230 | M72X2 | 100             | 210 | 180 | 5  | 48 | 28 | 90 | 106 | M24 | 6322C3    | 6322C3             |
| 355LA      | 480 | 28 | 1717 | 372 | 230 | M72X2 | 80              | 170 | 140 | 5  | 40 | 22 | 71 | 85  | M20 | 6317C3    | 6317C3             |
| 355LB      | 480 | 28 | 1757 | 372 | 230 | M72X2 | 100             | 210 | 180 | 5  | 48 | 28 | 90 | 106 | M24 | 6322C3    | 6322C3             |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of shaft center high H : +0, -1  
3. Tolerance of key width F : h9

# AESU3S IE3 - Outline Dimension Sheet

## Vertical Flange Mounted, Shaft Down (V1; IM 3011)

Frame 80M ~ 90L

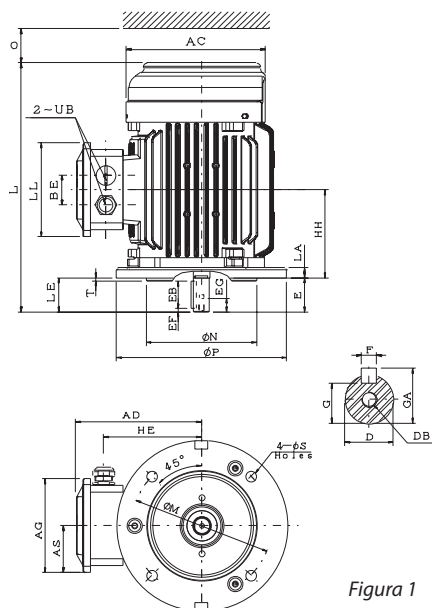


Figura 1

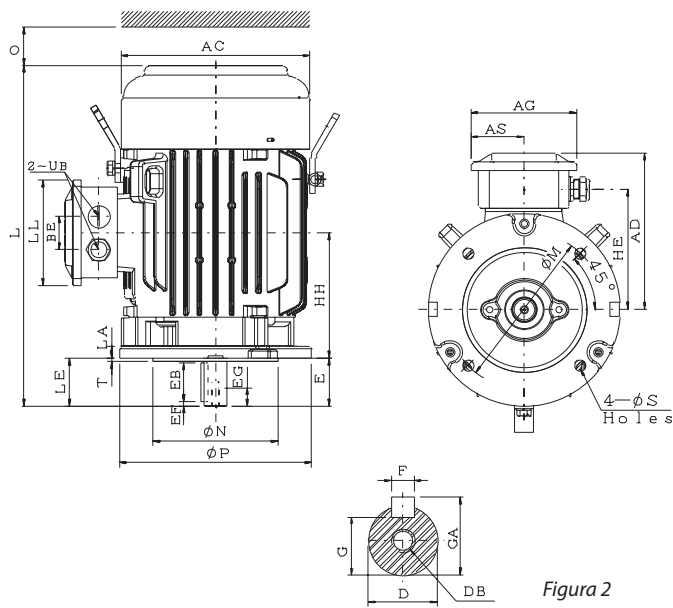


Figura 2

(Dimensioni in mm)

| Output (kW) |              |             |             | FRAME<br>SIZE | FIG.<br>NO. | FLANGE DIMENSION |    |     |     |     |    |     | AC  | AD  | AG  | AS   | BE | HE  | HH    | L   |
|-------------|--------------|-------------|-------------|---------------|-------------|------------------|----|-----|-----|-----|----|-----|-----|-----|-----|------|----|-----|-------|-----|
| 2P          | 4P           | 6P          | 8P          |               |             | LA               | LE | M   | N   | P   | S  | T   |     |     |     |      |    |     |       |     |
| 0.75<br>1.1 | 0.55<br>0.75 | ---<br>0.55 | 0.18<br>--- | 80M           | 1           | 12               | 40 | 165 | 130 | 200 | 12 | 3,5 | 177 | 152 | 109 | 54.5 | 35 | 115 | 103,5 | 292 |
| 1.5         | 1.1          | 0.75        | 0.37        | 90S           | 2           | 12               | 50 | 165 | 130 | 200 | 12 | 3,5 | 197 | 162 | 109 | 54.5 | 35 | 125 | 125,5 | 344 |
| 2.2         | 1.5          | 1.1         | 0.55        | 90L           |             | 12               | 50 | 165 | 130 | 200 | 12 | 3,5 | 197 | 162 | 109 | 54.5 | 35 | 125 | 130,5 | 354 |

| FRAME SIZE | LL  | O  | UB1     | SHAFT EXTENSION |    |    |    |    |   |      |      |    | BEARING   |                    |
|------------|-----|----|---------|-----------------|----|----|----|----|---|------|------|----|-----------|--------------------|
|            |     |    |         | D               | E  | EB | EF | EG | F | G    | GA   | DB | DRIVE END | OPPOSITE DRIVE END |
| 80M        | 109 | 40 | M20X1.5 | 19              | 40 | 32 | 4  | 16 | 6 | 15.5 | 21.5 | M6 | 6204ZZC3  | 6203ZZC3           |
| 90S        | 109 | 40 | M20X1.5 | 24              | 50 | 40 | 5  | 19 | 8 | 20   | 27   | M8 | 6205ZZC3  | 6204ZZC3           |
| 90L        | 109 | 40 | M20X1.5 | 24              | 50 | 40 | 5  | 19 | 8 | 20   | 27   | M8 | 6205ZZC3  | 6204ZZC3           |

NOTE: 1.Tolerance of shaft end diameter D:j6  
2.Tolerance of N:j6

# AESU3S IE3 - Outline Dimension Sheet

## Vertical Flange Mounted, Shaft Down (V1; IM 3011)

### Frame 100L ~ 132M

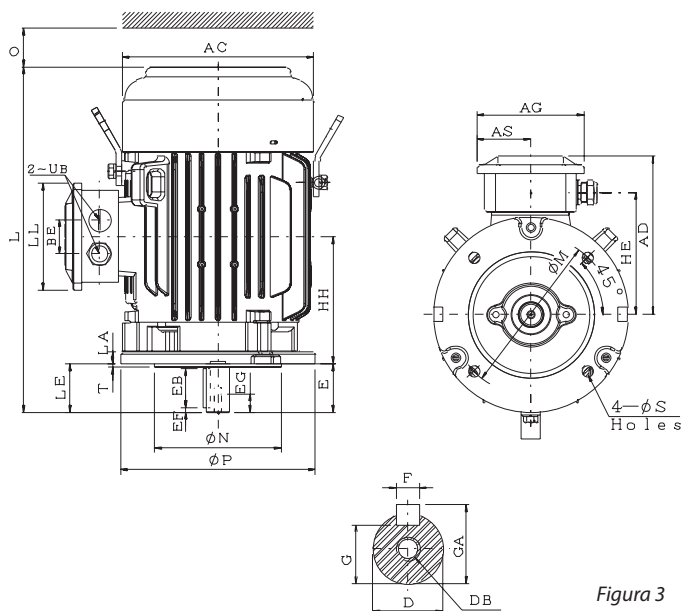


Figura 3

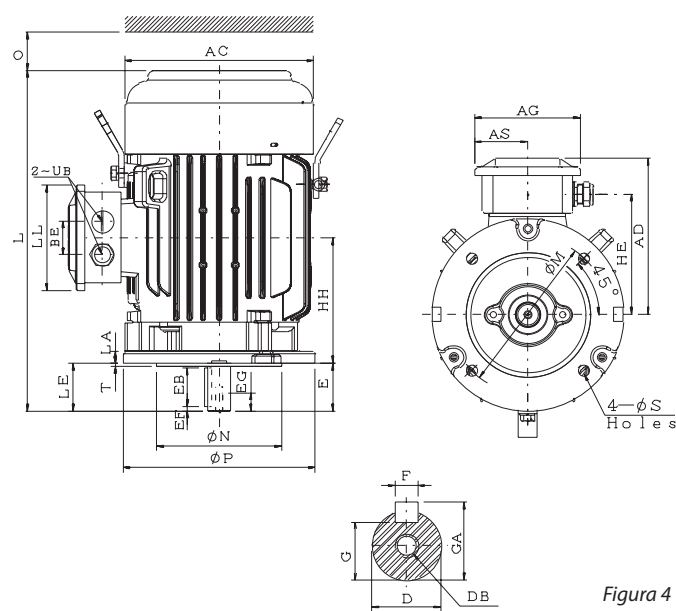


Figura 4

(Dimensioni in mm)

| Output (kW) |          |                 |             | FRAME<br>SIZE | FIG.<br>NO. | FLANGE DIMENSION |    |     |     |     |      |   |     | AC    | AD  | AG   | AS | BE    | HE    | HH    | L |
|-------------|----------|-----------------|-------------|---------------|-------------|------------------|----|-----|-----|-----|------|---|-----|-------|-----|------|----|-------|-------|-------|---|
| 2P          | 4P       | 6P              | 8P          |               |             | LA               | LE | M   | N   | P   | S    | T |     |       |     |      |    |       |       |       |   |
| 3           | 2.2<br>3 | 1.5             | 0.75<br>1.1 | 100L          | 4           | 16               | 60 | 215 | 180 | 250 | 14.5 | 4 | 219 | 178.5 | 125 | 62.5 | 40 | 146   | 135.5 | 391   |   |
| 2.2<br>3    | 2.2<br>3 | 2.2             | 1.5         | 112M          | 3           | 15               | 60 | 215 | 180 | 250 | 14.5 | 4 | 235 | 191   | 125 | 62.5 | 40 | 153.5 | 145   | 412.5 |   |
| 5.5<br>7.5  | 5.5      | 3               | 2.2         | 132S          | 4           | 16               | 80 | 265 | 230 | 300 | 14.5 | 4 | 273 | 208.5 | 125 | 62.5 | 40 | 171   | 154   | 456   |   |
| ---         | 7.5      | 3.7<br>4<br>5.5 | 3           | 132M          |             | 16               | 80 | 265 | 230 | 300 | 14.5 | 4 | 273 | 208.5 | 125 | 62.5 | 40 | 171   | 173   | 494   |   |

| FRAME SIZE | LL  | O  | UB1     | SHAFT EXTENSION |    |    |    |    |    |    |    |     | BEARING   |                    |
|------------|-----|----|---------|-----------------|----|----|----|----|----|----|----|-----|-----------|--------------------|
|            |     |    |         | D               | E  | EB | EF | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 100L       | 125 | 50 | M25X1.5 | 28              | 60 | 50 | 5  | 22 | 8  | 24 | 31 | M10 | 6206ZZC3  | 6205ZZC3           |
| 112M       | 125 | 50 | M25X1.5 | 28              | 60 | 50 | 5  | 22 | 8  | 24 | 31 | M10 | 6306ZZC3  | 6305ZZC3           |
| 132S       | 125 | 50 | M25X1.5 | 38              | 80 | 70 | 5  | 28 | 10 | 33 | 41 | M12 | 6308ZZC3  | 6306ZZC3           |
| 132M       | 125 | 50 | M25X1.5 | 38              | 80 | 70 | 5  | 28 | 10 | 33 | 41 | M12 | 6308ZZC3  | 6306ZZC3           |

NOTE: 1. Tolerance of shaft end diameter D: a) .ψ28: j6 ; b) .ψ38: k6  
2. Tolerance of N: j6

# AESV3S IE3 - Outline Dimension Sheet

## Horizontal Foot Mounting (B3; IM1001)

### Frame 355CA ~ 355CB

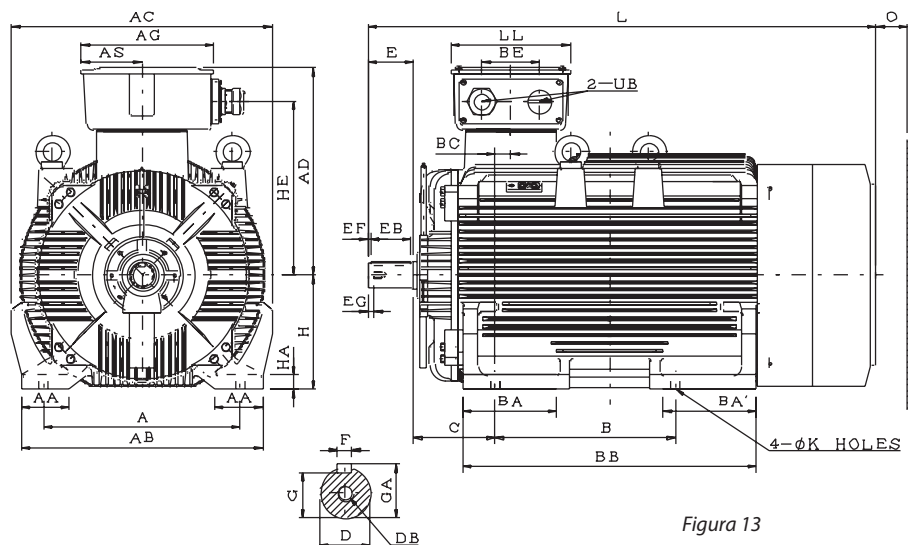


Figura 13

(Dimensioni in mm)

| Output (kW) |     |     |     | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS  | B   | B'  | BA  | BA' | BB   | BC | BE  | C   | H   | HA |
|-------------|-----|-----|-----|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|-----|-----|-----|----|
| 2P          | 4P  | 6P  | 8P  |            |          |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |    |
| 375         |     |     | --- | 355CA      | 13       | 610 | 150 | 750 | 810 | 645 | 412 | 189 | 900 | --- | 390 | 390 | 1100 | 48 | 180 | 254 | 355 | 45 |
| ---         | 375 | 315 | 250 | 355CB      |          | 610 | 150 | 750 | 810 | 645 | 412 | 189 | 900 | --- | 390 | 390 | 1100 | 48 | 180 | 254 | 355 | 45 |

| FRAME SIZE | HE  | K  | L    | LL  | O   | UB    | SHAFT EXTENSION |     |     |    |    |    |    |     |     | BEARING   |                    |
|------------|-----|----|------|-----|-----|-------|-----------------|-----|-----|----|----|----|----|-----|-----|-----------|--------------------|
|            |     |    |      |     |     |       | D               | E   | EB  | EF | EG | F  | G  | GA  | DB  | DRIVE END | OPPOSITE DRIVE END |
| 355CA      | 540 | 28 | 1795 | 372 | 230 | M72X2 | 80              | 170 | 140 | 5  | 40 | 22 | 71 | 85  | M20 | 6317C3    | 6317C3             |
| 355CB      | 540 | 28 | 1835 | 372 | 230 | M72X2 | 100             | 210 | 180 | 5  | 48 | 28 | 90 | 106 | M24 | 6322C3    | 6322C3             |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of shaft center high H : +0, -1  
3. Tolerance of key width F : h9

# AESU3S IE3 - Outline Dimension Sheet

## Vertical Flange Mounted, Shaft Down (V1; IM 3011)

### Frame 160M ~ 200L

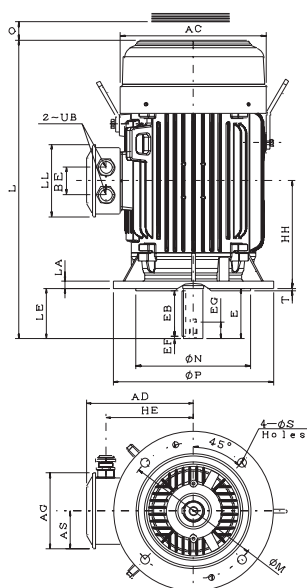


Figura 5

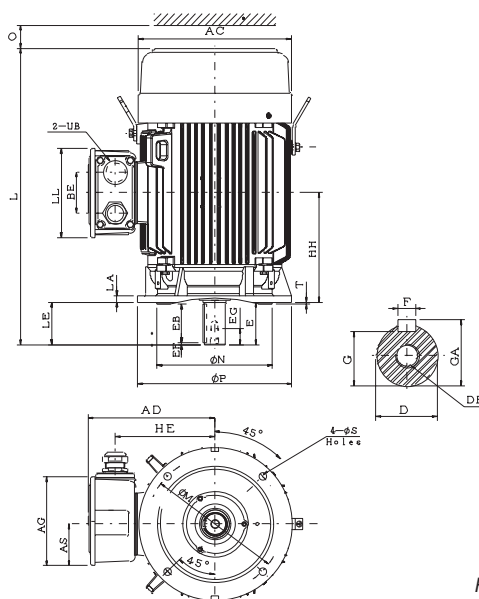


Figura 6

(Dimensioni in mm)

| Output (kW) |      |            |                 | FRAME SIZE | FIG. NO. | FLANGE DIMENSION |    |     |     |       |     |       | AC  | AD    | AG  | AS    | BE  | HE  | HH    | L   |
|-------------|------|------------|-----------------|------------|----------|------------------|----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|
| 2P          | 4P   | 6P         | 8P              |            |          | LA               | LE | M   | N   | P     | S   | T     |     |       |     |       |     |     |       |     |
| 11<br>15    | 11   | 7.5        | 3.7<br>4<br>5.5 | 80M        | 5        | 254              | 60 | 300 | 317 | 237   | 166 | 83    | 317 | 237   | 166 | 83    | 60  | 195 | 213   | 608 |
| 18.5        | 15   | 11         | 7.5             | 160L       |          | 254              | 60 | 300 | 317 | 237   | 166 | 83    | 317 | 237   | 166 | 83    | 60  | 195 | 235   | 652 |
| 4           | 18.5 | ---        | ---             | 180M       | 6        | 279              | 65 | 330 | 354 | 263.5 | 166 | 83    | 354 | 263.5 | 166 | 83    | 60  | 221 | 241.5 | 672 |
| ---         | 22   | 15         | 11              | 180L       |          | 279              | 65 | 330 | 354 | 263.5 | 166 | 83    | 354 | 263.5 | 166 | 83    | 60  | 221 | 260.5 | 710 |
| 30<br>37    | 30   | 18.5<br>22 | 0.55            | 200L       |          | 318              | 70 | 378 | 398 | 329   | 231 | 110.5 | 398 | 329   | 231 | 110.5 | 106 | 259 | 285.5 | 770 |

| FRAME SIZE | LL  | O  | UB1       | SHAFT EXTENSION |     |     |    |    |    |      |      |     | BEARING   |                    |
|------------|-----|----|-----------|-----------------|-----|-----|----|----|----|------|------|-----|-----------|--------------------|
|            |     |    |           | D               | E   | EB  | EF | EG | F  | G    | GA   | DB  | DRIVE END | OPPOSITE DRIVE END |
| 160M       | 158 | 60 | M32x 1.5  | 42              | 110 | 100 | 5  | 36 | 12 | 37   | 45   | M16 | 6309ZZC3  | 6307ZZC3           |
| 160L       | 158 | 60 | M32 x 1.5 | 42              | 110 | 100 | 5  | 36 | 12 | 37   | 45   | M16 | 6309ZZC3  | 6307ZZC3           |
| 180M       | 158 | 70 | M32 x 1.5 | 48              | 110 | 100 | 5  | 36 | 14 | 42.5 | 51.5 | M16 | 6311ZZC3  | 6310ZZC3           |
| 180L       | 158 | 70 | M32 x 1.5 | 48              | 110 | 100 | 5  | 36 | 14 | 42.5 | 51.5 | M16 | 6311ZZC3  | 6310ZZC3           |
| 200L       | 231 | 80 | M50 x 1.5 | 55              | 110 | 100 | 5  | 42 | 16 | 49   | 59   | M20 | 6312ZZC3  | 6212ZZC3           |

NOTE: 1.Tolerance of shaft end diameter D: a). $\psi 42 \sim \psi 48$ : k6 ; b). $\psi 55$ : m6.  
2.Tolerance of N:j6

# AESU3S IE3 - Outline Dimension Sheet

## Vertical Flange Mounted, Shaft Down (V1; IM 3011)

### Frame 225S ~ 250M

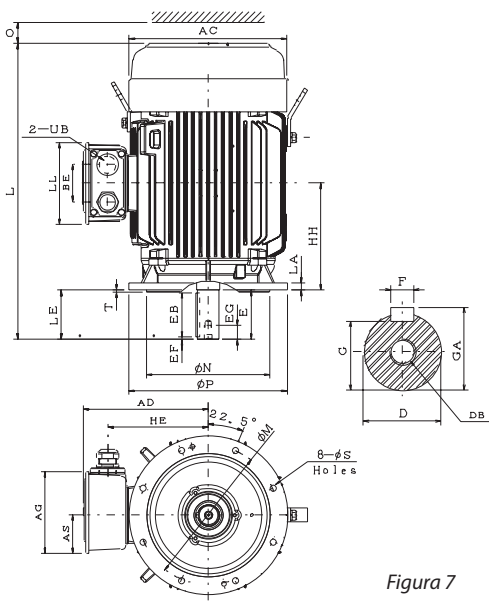


Figura 7

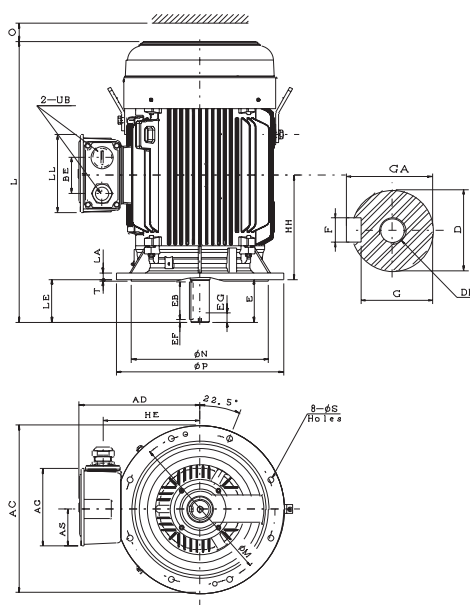


Figura 8

(Dimensioni in mm)

| Output (kW) |     |     |      | FRAME SIZE | FIG. NO. | FLANGE DIMENSION |     |     |     |     |      |   | AC  | AD  | AG  | AS    | BE  | HE  | HH    | L   |
|-------------|-----|-----|------|------------|----------|------------------|-----|-----|-----|-----|------|---|-----|-----|-----|-------|-----|-----|-------|-----|
| 2P          | 4P  | 6P  | 8P   |            |          | LA               | LE  | M   | N   | P   | S    | T |     |     |     |       |     |     |       |     |
| ---         | 37  | --- | 18.5 | 225SC      | 7        | 20               | 140 | 400 | 350 | 450 | 18.5 | 5 | 450 | 355 | 231 | 110.5 | 106 | 285 | 292   | 816 |
| 45          | --- | --- | ---  | 225MA      |          | 20               | 110 | 400 | 350 | 450 | 18.5 | 5 | 450 | 355 | 231 | 110.5 | 106 | 285 | 304.5 | 811 |
| ---         | 45  | 30  | 22   | 225MC      |          | 20               | 140 | 400 | 350 | 450 | 18.5 | 5 | 450 | 355 | 231 | 110.5 | 106 | 285 | 304.5 | 841 |
| 55          | --- | --- | ---  | 250MA      | 8        | 22               | 140 | 500 | 450 | 550 | 18.5 | 5 | 550 | 397 | 255 | 122.5 | 119 | 319 | 342.5 | 921 |
| ---         | 55  | 37  | 30   | 250MC      |          | 22               | 140 | 500 | 450 | 550 | 18.5 | 5 | 550 | 397 | 255 | 122.5 | 119 | 319 | 342.5 | 921 |

| FRAME SIZE | LL  | O   | UB1       | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING   |                    |
|------------|-----|-----|-----------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|--------------------|
|            |     |     |           | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 225SC      | 231 | 90  | M50 x 1.5 | 60              | 140 | 125 | 7.5 | 42 | 18 | 53 | 64 | M20 | 6313ZZC3  | 6213ZZC3           |
| 225MA      | 231 | 90  | M50 x 1.5 | 55              | 110 | 100 | 5   | 42 | 16 | 49 | 59 | M20 | 6312ZZC3  | 6212ZZC3           |
| 225MC      | 231 | 90  | M50 x 1.5 | 60              | 140 | 125 | 7.5 | 42 | 18 | 53 | 64 | M20 | 6313ZZC3  | 6213ZZC3           |
| 250MA      | 255 | 105 | M63 x 1.5 | 60              | 140 | 125 | 7.5 | 42 | 18 | 53 | 64 | M20 | 6313-ZC3  | 6313-ZC3           |
| 250MC      | 255 | 105 | M63 x 1.5 | 65              | 140 | 125 | 7.5 | 42 | 18 | 58 | 69 | M20 | 6315-ZC3  | 6313-ZC3           |

NOTE: 1.Tolerance of shaft end diameter D :m6  
2.Tolerance of N :j6

### Vertical Flange Mounted, Shaft Down (V1; IM 3011)

Figura 9

| Output (kW) |     |     |     | FRAME<br>SIZE | FIG.<br>NO. | FLANGE DIMENSION |     |     |     |     |      |   |     | AC  | AD  | AG    | AS  | BE    | HE  | HH     | L |
|-------------|-----|-----|-----|---------------|-------------|------------------|-----|-----|-----|-----|------|---|-----|-----|-----|-------|-----|-------|-----|--------|---|
| 2P          | 4P  | 6P  | 8P  |               |             | LA               | LE  | M   | N   | P   | S    | T |     |     |     |       |     |       |     |        |   |
| 75          | --- | --- | --- | 280SA         | 9           | 22               | 140 | 500 | 450 | 550 | 18.5 | 5 | 710 | 433 | 255 | 122.5 | 119 | 354.5 | 238 | 1037.5 |   |
| ---         | 75  | 45  | 37  | 280SB         |             | 22               | 140 | 500 | 450 | 550 | 18.5 | 5 | 710 | 433 | 255 | 122.5 | 119 | 354.5 | 238 | 1037.5 |   |
| 90          | --- | --- | --- | 280MA         |             | 22               | 140 | 500 | 450 | 550 | 18.5 | 5 | 710 | 433 | 255 | 122.5 | 119 | 354.5 | 238 | 1087.5 |   |
| ---         | 90  | 55  | 45  | 280MB         |             | 22               | 140 | 500 | 450 | 550 | 18.5 | 5 | 710 | 433 | 255 | 122.5 | 119 | 354.5 | 238 | 1087.5 |   |

| FRAME<br>SIZE | LL  | O   | UB1     | SHAFT EXTENSION |     |     |     |    |    |      |      |     | BEARING   |                       |
|---------------|-----|-----|---------|-----------------|-----|-----|-----|----|----|------|------|-----|-----------|-----------------------|
|               |     |     |         | D               | E   | EB  | EF  | EG | F  | G    | GA   | DB  | DRIVE END | OPPOSITE<br>DRIVE END |
| 280SA         | 255 | 140 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58   | 69   | M20 | 6314C3    | 6314C3                |
| 280SB         | 255 | 140 | M63X1.5 | 75              | 140 | 125 | 7.5 | 40 | 20 | 67.5 | 79.5 | M20 | 6318C3    | 6316C3                |
| 280MA         | 255 | 140 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58   | 69   | M20 | 6314C3    | 6314C3                |
| 280MB         | 255 | 140 | M63X1.5 | 75              | 140 | 125 | 7.5 | 40 | 20 | 67.5 | 79.5 | M20 | 6318C3    | 6316C3                |

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# AESU3S IE3 - Outline Dimension Sheet

## Vertical Flange Mounted, Shaft Down (V1; IM 3011)

Frame 315SA ~ 315MB

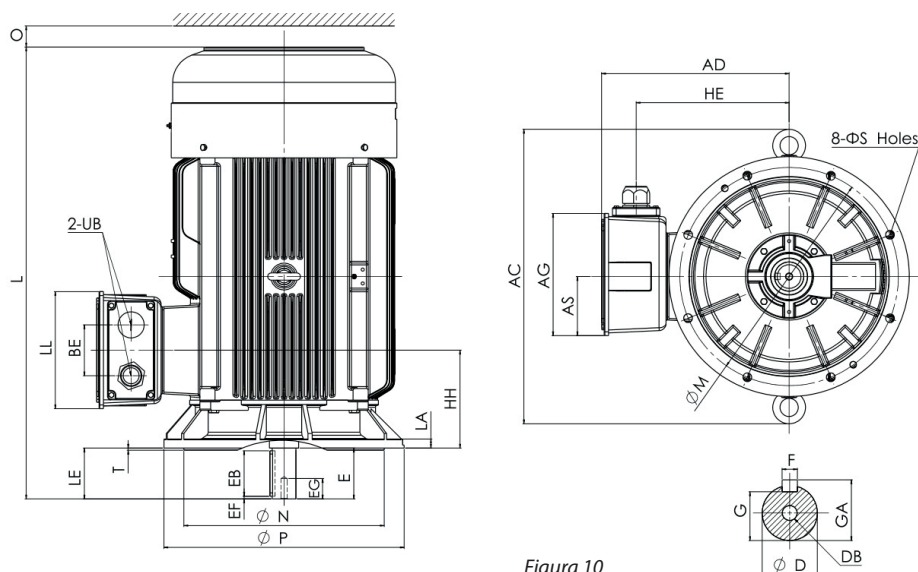


Figura 10

(Dimensioni in mm)

| Output (kW) |     |     |     | FRAME SIZE | FIG. NO. | FLANGE DIMENSION |     |     |     |     |    |   | AC  | AD  | AG  | AS  | BE  | HE  | HH  | L    |
|-------------|-----|-----|-----|------------|----------|------------------|-----|-----|-----|-----|----|---|-----|-----|-----|-----|-----|-----|-----|------|
| 2P          | 4P  | 6P  | 8P  |            |          | LA               | LE  | M   | N   | P   | S  | T |     |     |     |     |     |     |     |      |
| 110         | --- | --- | --- | 315SA      | 10       | 25               | 140 | 600 | 550 | 660 | 24 | 6 | 756 | 490 | 336 | 163 | 140 | 395 | 269 | 1162 |
| ---         | 110 | 75  | 55  | 315SB      |          | 25               | 170 | 600 | 550 | 660 | 24 | 6 | 756 | 490 | 336 | 163 | 140 | 395 | 269 | 1192 |
| 132         | --- | --- | --- | 315MA      |          | 25               | 140 | 600 | 550 | 660 | 24 | 6 | 810 | 515 | 336 | 163 | 140 | 420 | 269 | 1243 |
| ---         | 132 | 90  | 75  | 315MB      |          | 25               | 170 | 600 | 550 | 660 | 24 | 6 | 810 | 515 | 336 | 163 | 140 | 420 | 269 | 1273 |

| FRAME SIZE | LL  | O   | UB1     | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING   |                    |
|------------|-----|-----|---------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|--------------------|
|            |     |     |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 315SA      | 322 | 180 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 7314B              |
| 315SB      | 322 | 180 | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 7316B              |
| 315MA      | 322 | 180 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 7314B              |
| 315MB      | 322 | 180 | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 7316B              |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of key width F : h9  
3. Tolerance of N : js6



# AESU3S IE3 - Outline Dimension Sheet

## Vertical Flange Mounted, Shaft Down (V1; IM 3011)

### Frame 315LA ~ 315LB

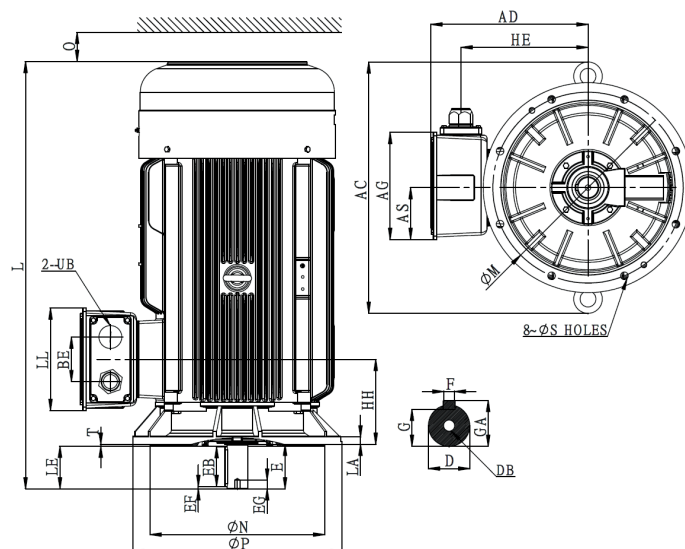


Figura 11

(Dimensioni in mm)

| Output (kW) |            |            |           | FRAME<br>SIZE | FIG.<br>NO. | FLANGE DIMENSION |     |     |     |     |    |   | AC  | AD  | AG  | AS  | BE  | HE  | HH  | L    |
|-------------|------------|------------|-----------|---------------|-------------|------------------|-----|-----|-----|-----|----|---|-----|-----|-----|-----|-----|-----|-----|------|
| 2P          | 4P         | 6P         | 8P        |               |             | LA               | LE  | M   | N   | P   | S  | T |     |     |     |     |     |     |     |      |
| 160<br>200  | ---        | ---        | ---       | 315LA         | 11          | 25               | 140 | 600 | 550 | 660 | 24 | 6 | 756 | 490 | 336 | 163 | 140 | 395 | 269 | 1162 |
| ---         | 160<br>200 | 110<br>132 | 90<br>110 | 315LB         |             | 25               | 170 | 600 | 550 | 660 | 24 | 6 | 756 | 490 | 336 | 163 | 140 | 395 | 269 | 1192 |

| FRAME<br>SIZE | HE  | K  | L    | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING   |                       |
|---------------|-----|----|------|-----|-----|---------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|-----------------------|
|               |     |    |      |     |     |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE<br>DRIVE END |
| 315LA         | 420 | 28 | 1346 | 322 | 180 | M63X1.5 | 65              | 140 | 125 | 7.5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 6314C3                |
| 315LB         | 420 | 28 | 1376 | 322 | 180 | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3                |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of shaft center high H : +0, -1  
3. Tolerance of key width F : h9

# AESU3S IE3 - Outline Dimension Sheet

## Vertical Flange Mounted, Shaft Down (V1; IM 3011)

Frame 355MA ~ 355LB

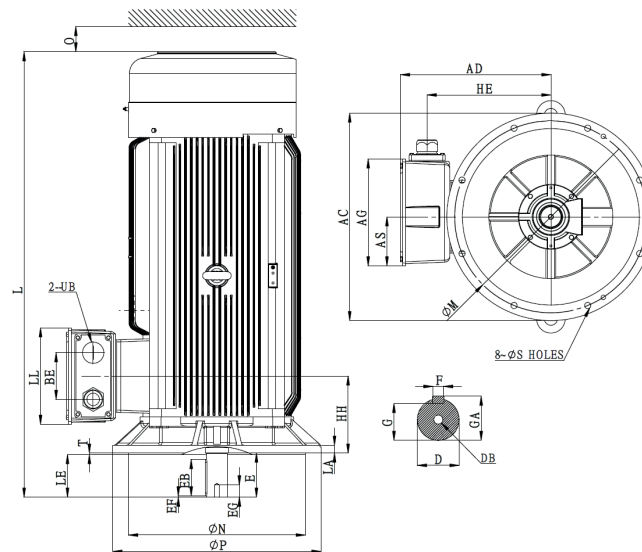


Figura 12

(Dimensioni in mm)

| Output (kW) |            |                   |            | FRAME SIZE | FIG. NO. | FLANGE DIMENSION |     |     |     |     |    |   | AC  | AD  | AG  | AS  | BE  | HE  | HH  | L    |
|-------------|------------|-------------------|------------|------------|----------|------------------|-----|-----|-----|-----|----|---|-----|-----|-----|-----|-----|-----|-----|------|
| 2P          | 4P         | 6P                | 8P         |            |          | LA               | LE  | M   | N   | P   | S  | T |     |     |     |     |     |     |     |      |
| 220<br>250  | ---        | ---               | ---        | 315SA      | 12       | 30               | 140 | 740 | 680 | 800 | 24 | 6 | 900 | 585 | 412 | 189 | 180 | 480 | 297 | 1717 |
| ---         | 220<br>250 | 160<br>200<br>220 | 132<br>160 | 315SB      |          | 30               | 170 | 740 | 680 | 800 | 24 | 6 | 900 | 585 | 412 | 189 | 180 | 480 | 297 | 1757 |
| 315         | ---        | ---               | ---        | 315MA      |          | 30               | 140 | 740 | 680 | 800 | 24 | 6 | 900 | 585 | 412 | 189 | 180 | 480 | 297 | 1717 |
| ---         | 315        | 250               | 200<br>220 | 315MB      |          | 30               | 170 | 740 | 680 | 800 | 24 | 6 | 900 | 585 | 412 | 189 | 180 | 480 | 297 | 1757 |

| FRAME SIZE | LL  | O   | UB1   | SHAFT EXTENSION |     |     |    |    |    |    |     |     | BEARING   |                    |
|------------|-----|-----|-------|-----------------|-----|-----|----|----|----|----|-----|-----|-----------|--------------------|
|            |     |     |       | D               | E   | EB  | EF | EG | F  | G  | GA  | DB  | DRIVE END | OPPOSITE DRIVE END |
| 355MA      | 372 | 230 | M72X2 | 80              | 170 | 140 | 5  | 40 | 22 | 71 | 85  | M20 | 6317C3    | 7317B              |
| 355MB      | 372 | 230 | M72X2 | 100             | 210 | 180 | 5  | 48 | 28 | 90 | 106 | M24 | 6322C3    | 7322B              |
| 355LA      | 372 | 230 | M72X2 | 80              | 170 | 140 | 5  | 40 | 22 | 71 | 85  | M20 | 6317C3    | 7317B              |
| 355LB      | 372 | 230 | M72X2 | 100             | 210 | 180 | 5  | 48 | 28 | 90 | 106 | M24 | 6322C3    | 7322B              |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of key width F : h9  
3. Tolerance of N : js6

# AESV4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (B3)

Frame 160M ~ 180L

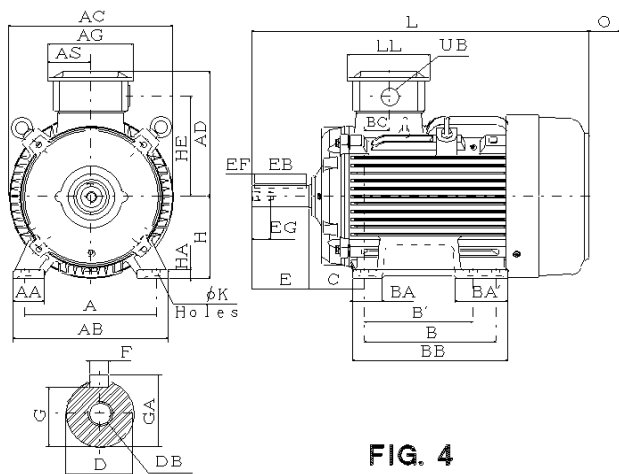


FIG. 4

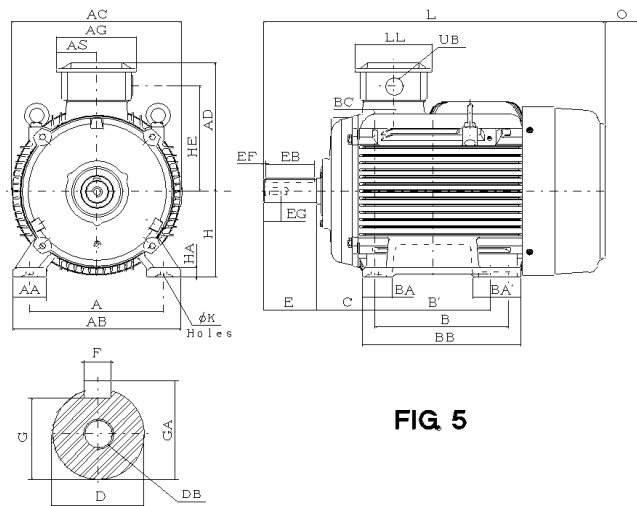


FIG. 5

| Output (kW) |      |     |     | FRAME SIZE | FIG. NO. | A   | AA | AB  | AC  | AD    | AG  | AS | B   | B'  | BA   | BA'   | BB  | BC | BE | C   | H   | HA | HE  |
|-------------|------|-----|-----|------------|----------|-----|----|-----|-----|-------|-----|----|-----|-----|------|-------|-----|----|----|-----|-----|----|-----|
| 2P          | 4P   | 6P  | 8P  |            |          |     |    |     |     |       |     |    |     |     |      |       |     |    |    |     |     |    |     |
| 11          | 11   | --- | --- | 160M       | 4        | 254 | 60 | 300 | 317 | 243,5 | 166 | 83 | 210 | --- | 57,5 | 101,5 | 300 | 47 | 60 | 108 | 160 | 18 | 195 |
| 15          | ---  | --- | --- | 160L       |          | 254 | 60 | 300 | 317 | 243,5 | 166 | 83 | 254 | 210 | 57,5 | 101,5 | 300 | 47 | 60 | 108 | 160 | 18 | 195 |
| 18,5        | 15   | 11  | --- | 180M       | 5        | 279 | 65 | 330 | 354 | 269,5 | 166 | 83 | 241 | --- | 62   | 100   | 330 | 39 | 60 | 121 | 180 | 20 | 221 |
| 22          | 18,5 | --- | --- | 180L       |          | 279 | 65 | 330 | 354 | 269,5 | 166 | 83 | 279 | 241 | 62   | 100   | 330 | 39 | 60 | 121 | 180 | 20 | 221 |
| ---         | 22   | 15  | --- |            |          |     |    |     |     |       |     |    |     |     |      |       |     |    |    |     |     |    |     |

| FRAME SIZE | K    | L   | LL  | O  | UB      | SHAFT EXTENSION |     |     |    |    |    |      |      |     | BEARING   |                    |
|------------|------|-----|-----|----|---------|-----------------|-----|-----|----|----|----|------|------|-----|-----------|--------------------|
|            |      |     |     |    |         | D               | E   | EB  | EF | EG | F  | G    | GA   | DB  | DRIVE END | OPPOSITE DRIVE END |
| 160M       | 14.5 | 652 | 160 | 60 | M32X1.5 | 42              | 110 | 100 | 5  | 36 | 12 | 37   | 45   | M16 | 6309ZZC3  | 6307ZZC3           |
| 160L       | 14.5 |     |     |    |         |                 |     |     |    |    |    |      |      |     |           |                    |
| 180M       | 14.5 | 710 | 160 | 70 | M32X1.5 | 48              | 110 | 100 | 5  | 36 | 14 | 42.5 | 51.5 | M16 | 6311ZZC3  | 6310ZZC3           |
| 180L       | 14.5 |     |     |    |         |                 |     |     |    |    |    |      |      |     |           |                    |

NOTE: 1.Tolerance of shaft end diameter D : k6  
2.Tolerance of shaft center high H : +0, -0.5  
3.Bearing No. In ( ) is for 2P.  
4.T-Box Assy with a cable grand body

# AESV4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (B3) Frame

Frame 200L ~ 250M

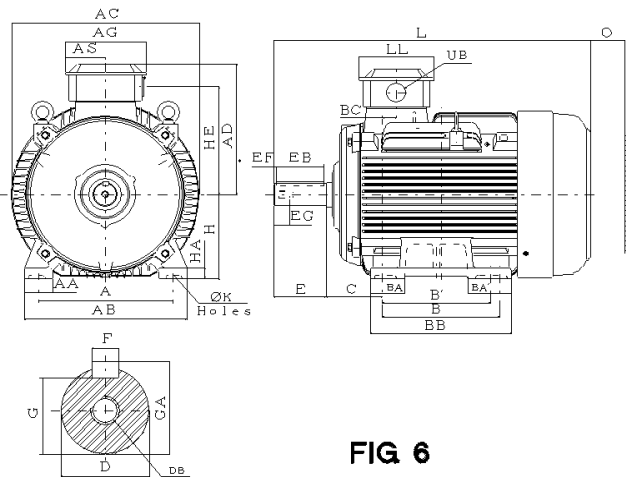


FIG 6

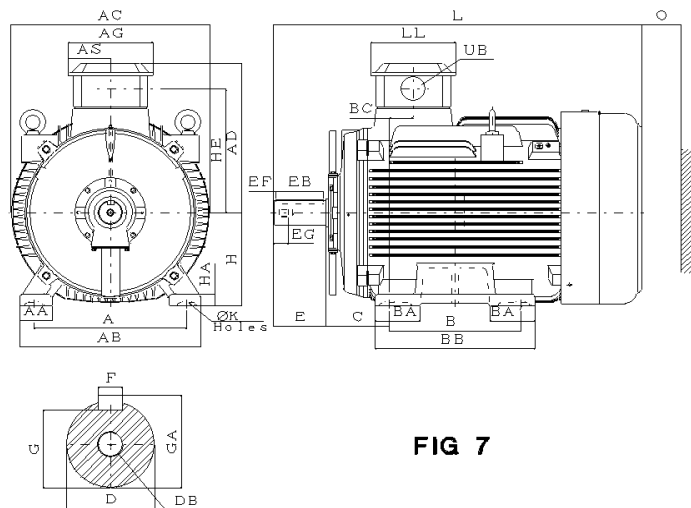


FIG 7

| Output (kW) |     |      |     | FRAME SIZE | FIG. NO. | A   | AA | AB  | AC    | AD    | AG  | AS    | B   | B'  | BA  | BA' | BB  | BC   | BE | C   | H   | HA | HE    |
|-------------|-----|------|-----|------------|----------|-----|----|-----|-------|-------|-----|-------|-----|-----|-----|-----|-----|------|----|-----|-----|----|-------|
| 2P          | 4P  | 6P   | --- |            |          |     |    |     |       |       |     |       |     |     |     |     |     |      |    |     |     |    |       |
| 30          | 30  | 18.5 | --- | 200L       | 6        | 318 | 75 | 388 | 448   | 332   | 215 | 107,5 | 305 | --- | 76  | 76  | 365 | 52   | 74 | 133 | 200 | 24 | 271,5 |
| 37          | 30  | 22   | --- | 225SC      |          | 356 | 75 | 431 | 498   | 351,5 | 215 | 107,5 | 286 | --- | 90  | 90  | 350 | 37,5 | 74 | 149 | 225 | 28 | 289,5 |
| ---         | 37  | ---  | --- | 225MA      |          | 356 | 75 | 431 | 498   | 351,5 | 215 | 107,5 | 311 | 286 | 90  | 115 | 375 | 37,5 | 74 | 149 | 225 | 28 | 289,5 |
| 45          | --- | ---  | --- | 225MC      |          | 356 | 75 | 431 | 498   | 351,5 | 215 | 107,5 | 311 | 286 | 90  | 115 | 375 | 37,5 | 74 | 149 | 225 | 28 | 289,5 |
| ---         | 45  | 30   | --- | 250MA      | 7        | 406 | 85 | 480 | 527,5 | 403,5 | 249 | 124,5 | 349 | --- | 120 | 120 | 425 | 63,5 | 88 | 168 | 250 | 30 | 328   |
| 55          | --- | ---  | --- | 250MC      |          | 406 | 85 | 480 | 527,5 | 403,5 | 249 | 124,5 | 349 | --- | 120 | 120 | 425 | 63,5 | 88 | 168 | 250 | 30 | 328   |
| ---         | 55  | 37   | --- |            |          |     |    |     |       |       |     |       |     |     |     |     |     |      |    |     |     |    |       |

| FRAME SIZE | K    | L     | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING    |                    |
|------------|------|-------|-----|-----|---------|-----------------|-----|-----|-----|----|----|----|----|-----|------------|--------------------|
|            |      |       |     |     |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END  | OPPOSITE DRIVE END |
| 200L       | 18.5 | 764.5 | 199 | 80  | M50X1.5 | 55              | 110 | 100 | 5   | 42 | 16 | 49 | 59 | M20 | 6312ZZC3   | 6212ZZC3           |
| 225SC      | 18,5 | 816   | 199 | 90  | M50X1.5 | 60              | 140 | 125 | 7,5 | 42 | 18 | 53 | 64 | M20 | (6312ZZC3) | (6212ZZC3)         |
| 225MA      | 18,5 | 811   | 199 | 90  | M50X1.5 | 55              | 110 | 100 | 5   | 42 | 16 | 49 | 59 | M20 | 6313ZZC3   | 6213ZZC3           |
| 225MC      | 18,5 | 841   | 199 | 90  | M50X1.5 | 60              | 140 | 125 | 7,5 | 42 | 18 | 53 | 64 | M20 | 6313C3     | 6313C3             |
| 250MA      | 24   | 977,5 | 224 | 105 | M63X1.5 | 60              | 140 | 125 | 7,5 | 42 | 18 | 53 | 64 | M20 | 6315C3     | 6315C3             |
| 250MC      | 24   | 977,5 | 224 | 105 | M63X1.5 | 65              | 140 | 125 | 7,5 | 42 | 18 | 58 | 69 | M20 | 6315C3     | 6315C3             |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of shaft center high H : +0, -0.5  
3. Bearing No. In ( ) is for 2P  
4. T-Box Assy with a cable grand body

# AESV4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (B3)

Frame 280SA ~ 280MB

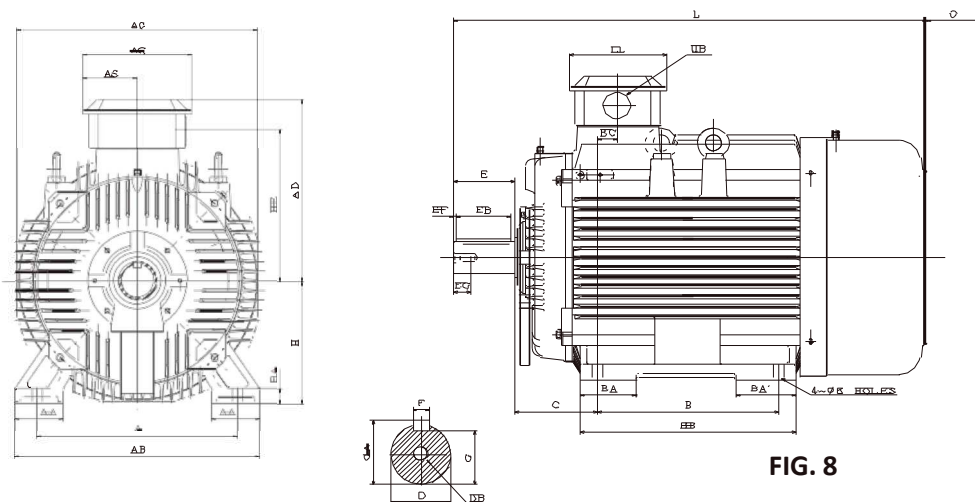


FIG. 8

| Output (kW) |     |     |     | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS    | B   | BA  | BA' | BB  | BC | BE | C   | H   | HA | HE  |
|-------------|-----|-----|-----|------------|----------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|----|----|-----|-----|----|-----|
| 2P          | 4P  | 6P  | 8P  |            |          |     |     |     |     |     |     |       |     |     |     |     |    |    |     |     |    |     |
| 75          | --- | --- | --- | 280SA      | 8        | 457 | 110 | 560 | 550 | 417 | 249 | 124,5 | 368 | 110 | 110 | 445 | 48 | 88 | 190 | 280 | 35 | 348 |
| ---         | 75  | 45  | --- | 280SB      |          | 457 | 110 | 560 | 550 | 417 | 249 | 124,5 | 368 | 110 | 110 | 445 | 48 | 88 | 190 | 280 | 35 | 348 |
| 90          | --- | --- | --- | 280MA      |          | 457 | 110 | 560 | 550 | 417 | 249 | 124,5 | 419 | 130 | 137 | 495 | 48 | 88 | 190 | 280 | 35 | 348 |
| ---         | 90  | 55  | --- | 280MB      |          | 457 | 110 | 560 | 550 | 417 | 249 | 124,5 | 419 | 130 | 137 | 495 | 48 | 88 | 190 | 280 | 35 | 348 |

| FRAME SIZE | K  | L      | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |      |      |     | BEARING   |                    |
|------------|----|--------|-----|-----|---------|-----------------|-----|-----|-----|----|----|------|------|-----|-----------|--------------------|
|            |    |        |     |     |         | D               | E   | EB  | EF  | EG | F  | G    | GA   | DB  | DRIVE END | OPPOSITE DRIVE END |
| 200L       | 24 | 1037,5 | 224 | 140 | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58   | 69   | M20 | 6316C3    | 6314C3             |
| 280SB      | 24 | 1037,5 | 224 | 140 | M63X1.5 | 75              | 140 | 125 | 7,5 | 40 | 20 | 67,5 | 79,5 | M20 | 6318C3    | 6316C3             |
| 280MA      | 24 | 1087,5 | 224 | 140 | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58   | 69   | M20 | 6316C3    | 6314C3             |
| 280MB      | 24 | 1087,5 | 224 | 140 | M63X1.5 | 75              | 140 | 125 | 7,5 | 40 | 20 | 67,5 | 79,5 | M20 | 6318C3    | 6316C3             |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of shaft center high H : +0, -1  
3.Tolerance of Key Width F : h9  
4.T-Box Assy with a cable grand body

# AESV4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (B3) Frame

Frame 315SA ~ 315MB

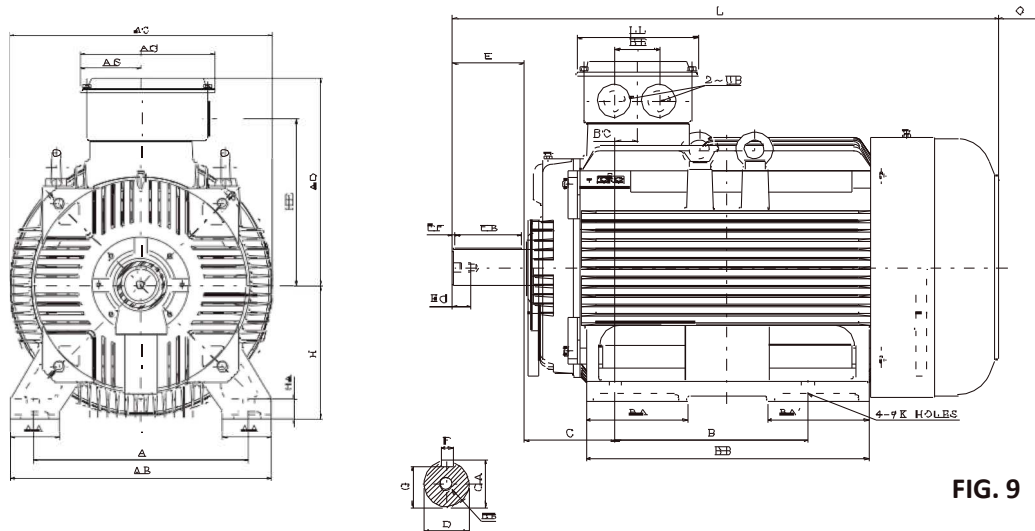


FIG. 9

| Output (kW) |     |     | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD    | AG  | AS  | B   | BA  | BA' | BB  | BC | BE  | C   | H   | HA | HE  |
|-------------|-----|-----|------------|----------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|
| 2P          | 4P  | 6P  |            |          |     |     |     |     |       |     |     |     |     |     |     |    |     |     |     |    |     |
| 110         | --- | --- | 315SA      | 9        | 508 | 130 | 630 | 620 | 481,5 | 318 | 144 | 406 | 230 | 230 | 640 | 53 | 106 | 216 | 315 | 45 | 384 |
| ---         | 110 | 75  | 315SB      |          | 508 | 130 | 630 | 620 | 481,5 | 318 | 144 | 406 | 230 | 230 | 640 | 53 | 106 | 216 | 315 | 45 | 384 |
| 132         | --- | --- | 315MA      |          | 508 | 130 | 630 | 620 | 481,5 | 318 | 144 | 457 | 230 | 230 | 640 | 53 | 106 | 216 | 315 | 45 | 384 |
| ---         | 132 | 90  | 315MB      |          | 508 | 130 | 630 | 620 | 481,5 | 318 | 144 | 457 | 230 | 230 | 640 | 53 | 106 | 216 | 315 | 45 | 384 |

| FRAME SIZE | K  | L    | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING   |                    |
|------------|----|------|-----|-----|---------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|--------------------|
|            |    |      |     |     |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 315SA      | 28 | 1246 | 288 | 180 | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 6314C3             |
| 315SA      | 28 | 1276 | 288 | 180 | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3             |
| 315SA      | 28 | 1246 | 288 | 180 | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 6314C3             |
| 315SA      | 28 | 1276 | 288 | 180 | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3             |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of shaft center high H : +0, -0.5  
3. Bearing No. In ( ) is for 2P  
4. T-Box Assy with a cable grand body

# AESV4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (B3)

Frame 315LA ~ 315LB

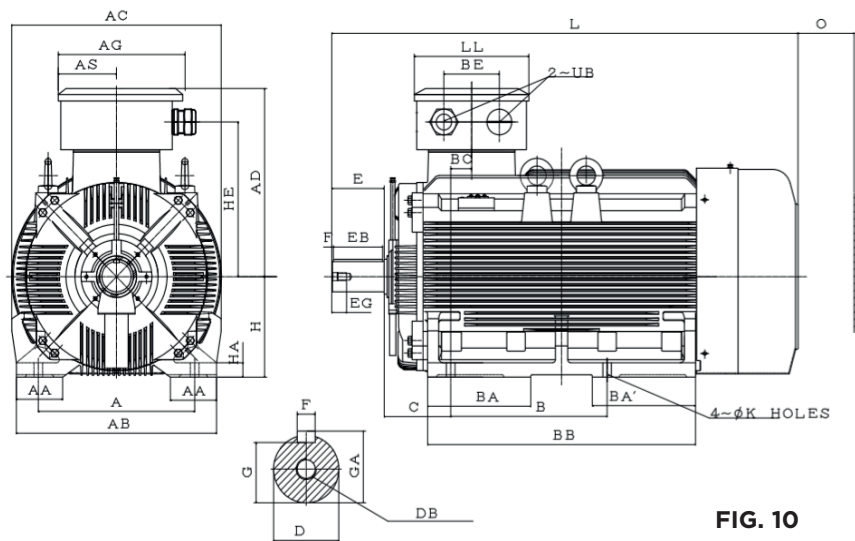


FIG. 10

| Output (kW) |     |     | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS  | B   | BA  | BA' | BB  | BC | BE  | C   | H   | HA | HE  |
|-------------|-----|-----|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|
| 2P          | 4P  | 6P  |            |          |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |    |     |
| 160         | --- | --- | 315LA      | 10       | 508 | 150 | 650 | 682 | 578 | 408 | 184 | 508 | 310 | 310 | 820 | 68 | 130 | 216 | 315 | 45 | 474 |
| ---         | 160 | 110 | 315LB      |          | 508 | 150 | 650 | 682 | 578 | 408 | 184 | 508 | 310 | 310 | 820 | 68 | 130 | 216 | 315 | 45 | 474 |

| FRAME<br>SIZE | K  | L    | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     |           | BEARING               |  |
|---------------|----|------|-----|-----|---------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|-----------------------|--|
|               |    |      |     |     |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE<br>DRIVE END |  |
| 315LA         | 28 | 1434 | 372 | 200 | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 6314C3                |  |
| 315LB         | 28 | 1464 | 372 | 200 | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3                |  |

NOTE: 1.Tolerance of shaft end diameter D : m6  
 2.Tolerance of shaft center high H : +0, -1  
 3.Tolerance of Key Width F : h9  
 4.T-Box Assy with a cable grand body

# AESV4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (B3)

Frame 355MA ~ 355MB

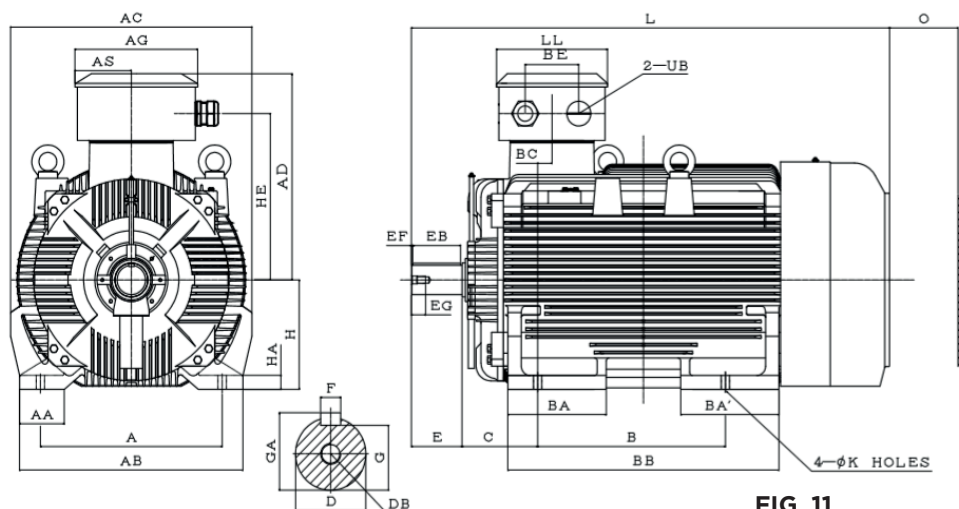


FIG. 11

| Output (kW) |     |            | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS  | B   | BA  | BA' | BB  | BC | BE  | C   | H   | HA |
|-------------|-----|------------|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|
| 2P          | 4P  | 6P         |            |          |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |    |
| 250         | --- | ---        | 355MA      | 11       | 610 | 150 | 750 | 810 | 633 | 408 | 184 | 560 | 330 | 330 | 860 | 48 | 130 | 254 | 355 | 45 |
| ---         | 250 | 160<br>200 | 355MB      |          | 610 | 150 | 750 | 810 | 633 | 408 | 184 | 560 | 330 | 330 | 860 | 48 | 130 | 254 | 355 | 45 |

| FRAME SIZE | HE  | K  | L    | LL  | O   | UB    |     |     |     |    |    |    |    |     |     |  | BEARING   |                    |
|------------|-----|----|------|-----|-----|-------|-----|-----|-----|----|----|----|----|-----|-----|--|-----------|--------------------|
|            |     |    |      |     |     |       | D   | E   | EB  | EF | EG | F  | G  | GA  | DB  |  | DRIVE END | OPPOSITE DRIVE END |
| 355MA      | 529 | 28 | 1664 | 372 | 230 | M72X2 | 80  | 170 | 140 | 5  | 40 | 20 | 71 | 85  | M20 |  | 6317C3    | 6317C3             |
| 355MB      | 529 | 28 | 1595 | 372 | 230 | M72X2 | 100 | 210 | 180 | 5  | 48 | 28 | 90 | 106 | M24 |  | 6322C3    | 6322C3             |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of shaft center high H : +0, -1  
3.Tolerance of Key Width F : h9  
4.T-Box Assy with a cable grand body



# AESV4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (B3)

Frame 355LA ~ 355LB

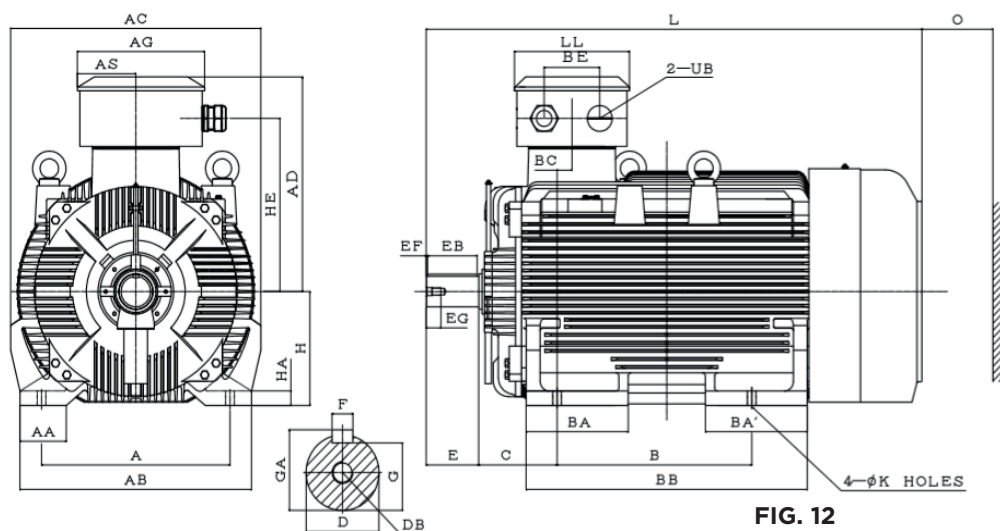


FIG. 12

| Output (kW) |     |     | FRAME SIZE | FIG. NO. | A   | AA  | AB  | AC  | AD  | AG  | AS  | B   | BA  | BA' | BB  | BC | BE  | C   | H   | HA |
|-------------|-----|-----|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|
| 2P          | 4P  | 6P  |            |          |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |    |
| 315         | --- | --- | 355LA      | 12       | 610 | 150 | 750 | 810 | 633 | 408 | 184 | 630 | 330 | 330 | 910 | 48 | 130 | 254 | 355 | 45 |
| ---         | 315 | 250 | 355LB      |          | 610 | 150 | 750 | 810 | 633 | 408 | 184 | 630 | 330 | 330 | 910 | 48 | 130 | 254 | 355 | 45 |

| FRAME SIZE | HE  | K  | L    | LL  | O   | UB    | SHAFT EXTENSION |     |     |    |    |    |    |     |     | BEARING   |                    |
|------------|-----|----|------|-----|-----|-------|-----------------|-----|-----|----|----|----|----|-----|-----|-----------|--------------------|
|            |     |    |      |     |     |       | D               | E   | EB  | EF | EG | F  | G  | GA  | DB  | DRIVE END | OPPOSITE DRIVE END |
| 355LA      | 529 | 28 | 1714 | 372 | 230 | M72X2 | 80              | 170 | 140 | 5  | 40 | 20 | 71 | 85  | M20 | 6317C3    | 6317C3             |
| 355LB      | 529 | 28 | 1645 | 372 | 230 | M72X2 | 100             | 210 | 180 | 5  | 48 | 28 | 90 | 106 | M24 | 6322C3    | 6316C3             |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of shaft center high H : +0, -1  
3.Tolerance of Key Width F : h9  
4.T-Box Assy with a cable grand body

# AESU4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (V1)

Frame 160M ~ 180L

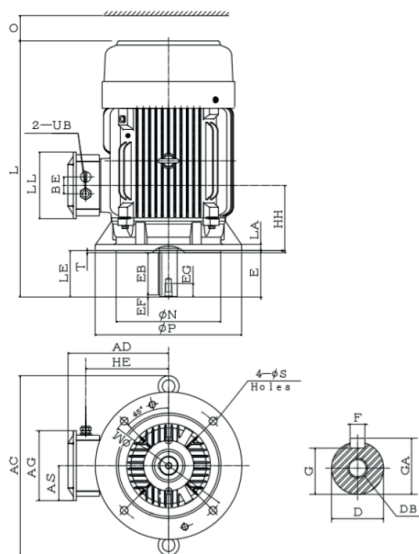


FIG 5

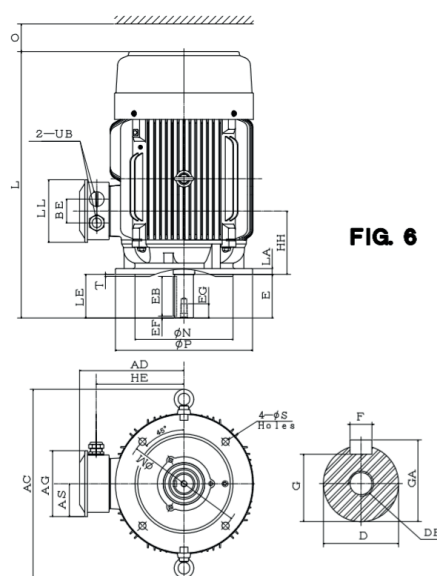


FIG 6

| Output (kW) |      |     |     | FRAME<br>SIZE | FIG.<br>NO. | FLANGE DIMENSION |     |     |     |     |      |   | AC  | AD    | AG  | AS | BE | HE  | HH  | L   | LL  | O  |
|-------------|------|-----|-----|---------------|-------------|------------------|-----|-----|-----|-----|------|---|-----|-------|-----|----|----|-----|-----|-----|-----|----|
| 2P          | 4P   | 6P  | --- |               |             | LA               | LE  | M   | N   | P   | S    | T |     |       |     |    |    |     |     |     |     |    |
| 11<br>15    | 11   | --- | --- | 160M          | 5           | 15               | 110 | 300 | 250 | 350 | 18,5 | 5 | 427 | 243,5 | 166 | 83 | 60 | 195 | 155 | 652 | 160 | 60 |
| 18,5        | 15   | 11  | --- | 160L          |             | 15               | 110 | 300 | 250 | 350 | 18,5 | 5 | 427 | 243,5 | 166 | 83 | 60 | 195 | 155 | 652 | 160 | 60 |
| 22          | 18,5 | --- | --- | 180M          | 6           | 15               | 110 | 300 | 250 | 350 | 18,5 | 5 | 476 | 269,5 | 166 | 83 | 60 | 221 | 160 | 710 | 160 | 70 |
| ---         | 22   | 15  | --- | 180L          |             | 15               | 110 | 300 | 250 | 350 | 18,5 | 5 | 476 | 269,5 | 166 | 83 | 60 | 221 | 160 | 710 | 160 | 70 |

| FRAME SIZE | UB      | SHAFT EXTENSION |     |     |    |    |    |      |      |     | BEARING   |                    |
|------------|---------|-----------------|-----|-----|----|----|----|------|------|-----|-----------|--------------------|
|            |         | D               | E   | EB  | EF | EG | F  | G    | GA   | DB  | DRIVE END | OPPOSITE DRIVE END |
| 160M       | M32X1.5 | 42              | 110 | 100 | 5  | 36 | 12 | 37   | 45   | M16 | 6309ZZC3  | 6307ZZC3           |
| 160L       | M32X1.5 | 42              | 110 | 100 | 5  | 36 | 12 | 37   | 45   | M16 | 6309ZZC3  | 6307ZZC3           |
| 180M       | M32X1.5 | 48              | 110 | 100 | 5  | 36 | 14 | 42,5 | 51,5 | M16 | 6311ZZC3  | 6310ZZC3           |
| 180L       | M32X1.5 | 48              | 110 | 100 | 5  | 36 | 14 | 42,5 | 51,5 | M16 |           |                    |

NOTE: 1.Tolerance of shaft end diameter D : k6  
2.Tolerance of N : j6  
3. Bearing No. In ( ) is for 2P.  
3.T-Box Assy with two cable grand bodies

# AESU4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (V1)

Frame 200L ~ 225M

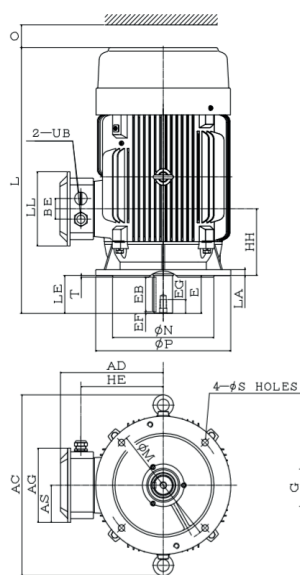


FIG. 7

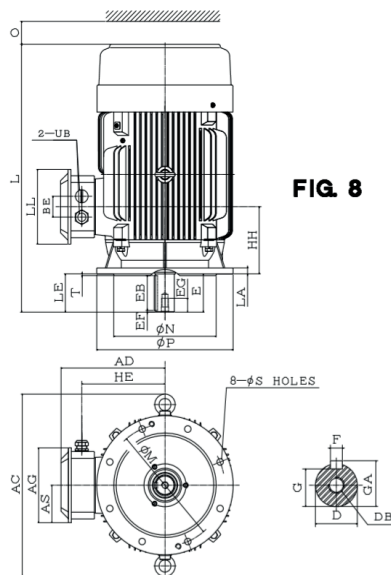


FIG. 8

| Output (kW) |     |            |     | FRAME<br>SIZE | FIG.<br>NO. | FLANGE DIMENSION |     |     |     |     |      |   | AC    | AD    | AG  | AS    | BE | HE    | HH    | L     |
|-------------|-----|------------|-----|---------------|-------------|------------------|-----|-----|-----|-----|------|---|-------|-------|-----|-------|----|-------|-------|-------|
| 2P          | 4P  | 6P         | --- |               |             | LA               | LE  | M   | N   | P   | S    | T |       |       |     |       |    |       |       |       |
| 30<br>37    | 30  | 18.5<br>22 | --- | 100L          | 7           | 17               | 110 | 350 | 300 | 400 | 18,5 | 5 | 576,5 | 332   | 215 | 107,5 | 74 | 271,5 | 185   | 764,5 |
| ---         | 37  | ---        | --- | 112M          | 8           | 20               | 140 | 400 | 350 | 450 | 18,5 | 5 | 652   | 351,5 | 215 | 107,5 | 74 | 289,5 | 186,5 | 816   |
| 45          | --- | ---        | --- | 132S          |             | 20               | 110 | 400 | 350 | 450 | 18,5 | 5 | 652   | 351,5 | 215 | 107,5 | 74 | 289,5 | 186,5 | 811   |
| ---         | 45  | 30         | --- | 132M          |             | 20               | 140 | 400 | 350 | 450 | 18,5 | 5 | 652   | 351,5 | 215 | 107,5 | 74 | 289,5 | 186,5 | 841   |

| FRAME SIZE | LL  | O  | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING    |                    |
|------------|-----|----|---------|-----------------|-----|-----|-----|----|----|----|----|-----|------------|--------------------|
|            |     |    |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END  | OPPOSITE DRIVE END |
| 200L       | 199 | 80 | M50X1.5 | 55              | 110 | 100 | 5   | 42 | 16 | 24 | 49 | M20 | 6312ZZC3   | 6212ZZC3           |
| 225SC      | 199 | 90 | M50X1.5 | 60              | 140 | 125 | 7,5 | 42 | 18 | 53 | 64 | M20 | (6312ZZC3) | (6212ZZC3)         |
| 225MA      | 199 | 90 | M50X1.5 | 55              | 110 | 100 | 5   | 42 | 16 | 49 | 59 | M20 | 6313ZZC3   | 6213ZZC3           |
| 225MC      | 199 | 90 | M50X1.5 | 60              | 140 | 125 | 7,5 | 42 | 18 | 53 | 64 | M20 | 6313ZZC3   | 6213ZZC3           |

NOTE: 1.Tolerance of shaft end diameter D :m6  
2.Tolerance of N : j6  
3. Bearing No. In ( ) is for 2P.  
4.T-Box Assy with two cable grand bodies

# AESU4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (V1)

Frame 250M

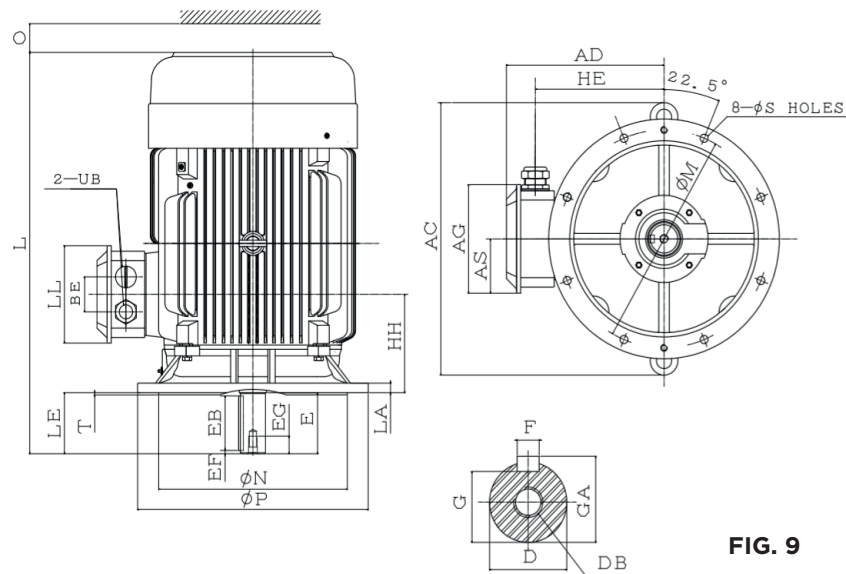


FIG. 9

| Output (kW) |     |     |     | FRAME SIZE | FIG. NO. | FLANGE DIMENSION |     |     |     |     |      |   | AC  | AD    | AG  | AS    | BE | HE  | HH    | L     |
|-------------|-----|-----|-----|------------|----------|------------------|-----|-----|-----|-----|------|---|-----|-------|-----|-------|----|-----|-------|-------|
| 2P          | 4P  | 6P  | --- |            |          | LA               | LE  | M   | N   | P   | S    | T |     |       |     |       |    |     |       |       |
| 55          | --- | --- | --- | 250MA      | 9        | 22               | 140 | 500 | 450 | 550 | 18,5 | 5 | 738 | 403,5 | 249 | 124,5 | 88 | 328 | 231,5 | 977,5 |
| ---         | 55  | 37  | --- | 250MC      |          | 22               | 140 | 500 | 450 | 550 | 18,5 | 5 | 738 | 403,5 | 249 | 124,5 | 88 | 328 | 231,5 | 977,5 |

| FRAME SIZE | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |     |    |    |    |     | BEARING   |                    |
|------------|-----|-----|---------|-----------------|-----|-----|-----|-----|----|----|----|-----|-----------|--------------------|
|            |     |     |         | D               | E   | EB  | EF  | EG  | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 250MA      | 224 | 105 | M63X1.5 | 60              | 140 | 125 | 7,5 | 42  | 18 | 53 | 64 | M20 | 6313C3    | 6313C3             |
| 225MC      | 224 | 105 | M63X1.5 |                 | 65  | 140 | 125 | 7,5 | 42 | 18 | 58 | 69  | 6315C3    | 6313C3             |

NOTE: 1.Tolerance of shaft end diameter D: m6  
2.Tolerance of N : j6  
3.T-Box Assy with two cable grand bodies

# AESU4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (V1)

Frame 280SA ~ 280MB

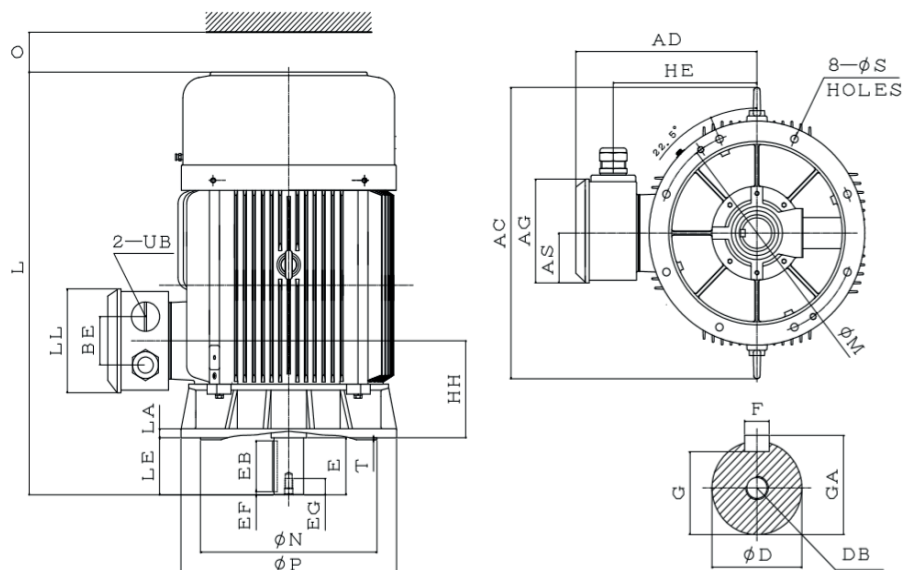


FIG. 10

| Output (kW) |     |     |     | FRAME<br>SIZE | FIG.<br>NO. | FLANGE DIMENSION |     |     |     |     |      | AC | AD  | AG  | AS  | BE    | HE | HH  | L   |        |
|-------------|-----|-----|-----|---------------|-------------|------------------|-----|-----|-----|-----|------|----|-----|-----|-----|-------|----|-----|-----|--------|
| 2P          | 4P  | 6P  | --- |               |             | LA               | LE  | M   | N   | P   | S    |    |     |     |     |       |    |     |     | T      |
| 75          | --- | --- | --- | 280SA         | 10          | 22               | 140 | 500 | 450 | 550 | 18,5 | 5  | 717 | 417 | 249 | 124,5 | 88 | 348 | 238 | 1037,5 |
| ---         | 75  | 45  | --- | 280SB         |             | 22               | 140 | 500 | 450 | 550 | 18,5 | 5  | 717 | 417 | 249 | 124,5 | 88 | 348 | 238 | 1037,5 |
| 90          | --- | --- | --- | 280MA         |             | 22               | 140 | 500 | 450 | 550 | 18,5 | 5  | 717 | 417 | 249 | 124,5 | 88 | 348 | 238 | 1087,5 |
| ---         | 90  | 55  | --- | 280MB         |             | 22               | 140 | 500 | 450 | 550 | 18,5 | 5  | 717 | 417 | 249 | 124,5 | 88 | 348 | 238 | 1087,5 |

| FRAME SIZE | LL  | O   | UB      | SHAFT EXTENSION |     |     |     |    |    |      |      |     | BEARING   |                    |
|------------|-----|-----|---------|-----------------|-----|-----|-----|----|----|------|------|-----|-----------|--------------------|
|            |     |     |         | D               | E   | EB  | EF  | EG | F  | G    | GA   | DB  | DRIVE END | OPPOSITE DRIVE END |
| 280SA      | 224 | 140 | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58   | 69   | M20 | 6316C3    | 6314C3             |
| 280SB      | 224 | 140 | M63X1.5 | 75              | 140 | 125 | 7,5 | 40 | 20 | 67,5 | 79,5 | M20 | 6318C3    | 6316C3             |
| 280MA      | 224 | 140 | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58   | 69   | M20 | 6316C3    | 6314C3             |
| 280MB      | 224 | 140 | M63X1.5 | 75              | 140 | 125 | 7,5 | 40 | 20 | 67,5 | 79,5 | M20 | 6318C3    | 6316C3             |

NOTE: 1.Tolerance of shaft end diameter D:m6  
2.Tolerance of Key Width F:h9  
3.Tolerance of N:j6  
4.T-Box Assy with two cable grand bodies

# AESU4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (V1)

Frame 315SA ~ 315MB

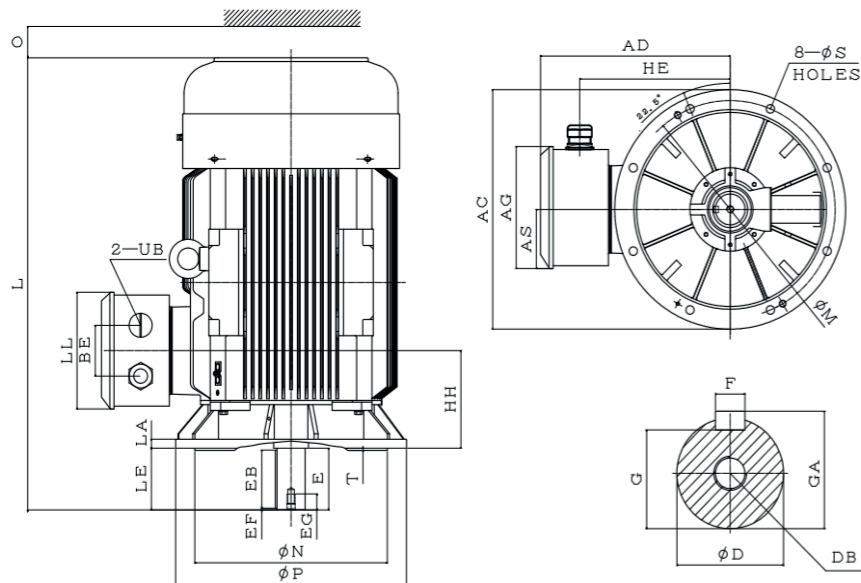


FIG. 11

| Output (kW) |     |     | FRAME<br>SIZE | FIG.<br>NO. | FLANGE DIMENSION |     |     |     |     |    | AC | AD  | AG    | AS  | BE  | HE  | HH  | L   | LL   | O   |     |
|-------------|-----|-----|---------------|-------------|------------------|-----|-----|-----|-----|----|----|-----|-------|-----|-----|-----|-----|-----|------|-----|-----|
| 2P          | 4P  | 6P  |               |             | LA               | LE  | M   | N   | P   | S  |    |     |       |     |     |     |     |     |      |     | T   |
| 110         | --- | --- | 315SA         | 11          | 25               | 140 | 600 | 550 | 660 | 24 | 6  | 660 | 491,5 | 318 | 144 | 106 | 394 | 269 | 1246 | 288 | 180 |
| ---         | 110 | 75  | 315SB         |             | 25               | 170 | 600 | 550 | 660 | 24 | 6  | 660 | 491,5 | 318 | 144 | 106 | 394 | 269 | 1276 | 288 | 180 |
| 132         | --- | --- | 315MA         |             | 25               | 140 | 600 | 550 | 660 | 24 | 6  | 660 | 491,5 | 318 | 144 | 106 | 394 | 269 | 1246 | 288 | 180 |
| ---         | 132 | 90  | 315MB         |             | 25               | 170 | 600 | 550 | 660 | 24 | 6  | 660 | 491,5 | 318 | 144 | 106 | 394 | 269 | 1276 | 288 | 180 |

| FRAME SIZE | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING   |                    |
|------------|---------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|--------------------|
|            |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 315SA      | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 7314B              |
| 315SB      | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3             |
| 315MA      | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 7314B              |
| 315MB      | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3             |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of Key Width F : h9  
3.Tolerance of N : js6  
4.T-Box Assy with two cable grand bodies

### Cast iron design; feet version (V1)

| Output (kW) |            |            | FRAME SIZE | FIG. NO. | FLANGE DIMENSION |     |     |     |     |    | AC | AD  | AG  | AS  | BE  | HE  | HH  | L   | LL   | O   |     |
|-------------|------------|------------|------------|----------|------------------|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 2P          | 4P         | 6P         |            |          | LA               | LE  | M   | N   | P   | S  |    |     |     |     |     |     |     |     |      |     | T   |
| 160<br>200  | ---        | ---        | 315LA      | 12       | 30               | 140 | 600 | 550 | 660 | 24 | 6  | 682 | 578 | 408 | 184 | 130 | 474 | 284 | 1674 | 372 | 200 |
| ---         | 160<br>200 | 110<br>132 | 315LB      |          | 30               | 170 | 600 | 550 | 660 | 24 | 6  | 682 | 578 | 408 | 184 | 130 | 474 | 284 | 1704 | 372 | 200 |

| FRAME SIZE | UB      | SHAFT EXTENSION |     |     |     |    |    |    |    |     | BEARING   |                    |
|------------|---------|-----------------|-----|-----|-----|----|----|----|----|-----|-----------|--------------------|
|            |         | D               | E   | EB  | EF  | EG | F  | G  | GA | DB  | DRIVE END | OPPOSITE DRIVE END |
| 315LA      | M63X1.5 | 65              | 140 | 125 | 7,5 | 40 | 18 | 58 | 69 | M20 | 6316C3    | 7314B              |
| 315LB      | M63X1.5 | 80              | 170 | 160 | 5   | 40 | 22 | 71 | 85 | M20 | 6320C3    | 6316C3             |

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# AESU4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (V1)

Frame 355MA ~ 355MB

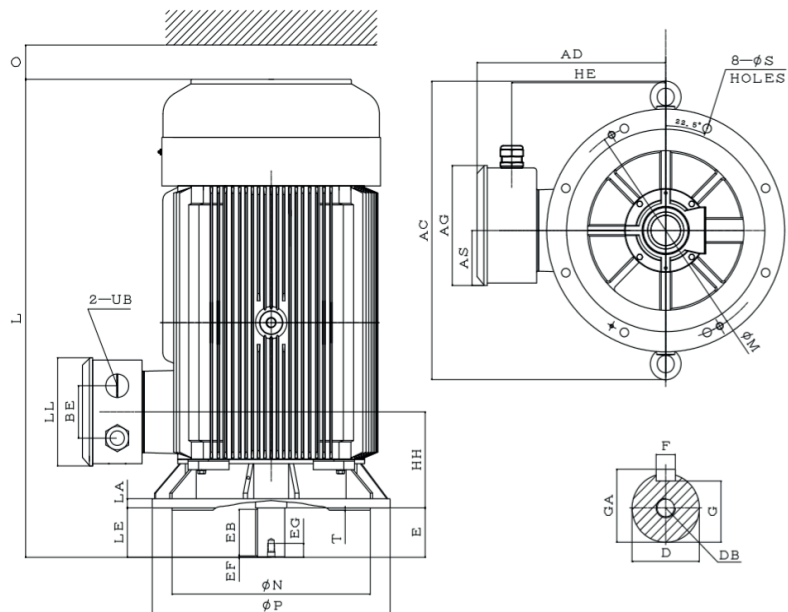


FIG. 13

| Output (kW) |     |            | FRAME SIZE | FIG. NO. | FLANGE DIMENSION |     |     |     |     |    | AC | AD   | AG  | AS  | BE  | HE  | HH  | L   | LL   | O   |     |
|-------------|-----|------------|------------|----------|------------------|-----|-----|-----|-----|----|----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 2P          | 4P  | 6P         |            |          | LA               | LE  | M   | N   | P   | S  |    |      |     |     |     |     |     |     |      |     | T   |
| 250         | --- | ---        | 355MA      | 13       | 30               | 140 | 740 | 680 | 800 | 24 | 6  | 1026 | 633 | 408 | 184 | 130 | 529 | 302 | 1664 | 372 | 230 |
| ---         | 250 | 160<br>200 | 355MB      |          | 30               | 170 | 740 | 680 | 800 | 24 | 6  | 1026 | 633 | 408 | 184 | 130 | 529 | 302 | 1595 | 372 | 230 |

| FRAME SIZE | UB    | SHAFT EXTENSION |     |     |    |    |    |    |     |     | BEARING   |                    |
|------------|-------|-----------------|-----|-----|----|----|----|----|-----|-----|-----------|--------------------|
|            |       | D               | E   | EB  | EF | EG | F  | G  | GA  | DB  | DRIVE END | OPPOSITE DRIVE END |
| 355MA      | M72X2 | 80              | 170 | 140 | 5  | 40 | 20 | 71 | 85  | M20 | 6317C3    | 7317B              |
| 355MB      | M72X2 | 100             | 210 | 180 | 5  | 48 | 28 | 90 | 106 | M24 | 6322C3    | 7322B              |

NOTE: 1.Tolerance of shaft end diameter D : m6  
2.Tolerance of Key Width F : h9  
3.Tolerance of N : js6  
4.T-Box Assy with a cable grand bodies



# AESU4S IE4 - Outline Dimension Sheet

Cast iron design; feet version (V1)

Frame 355LA ~ 355LB

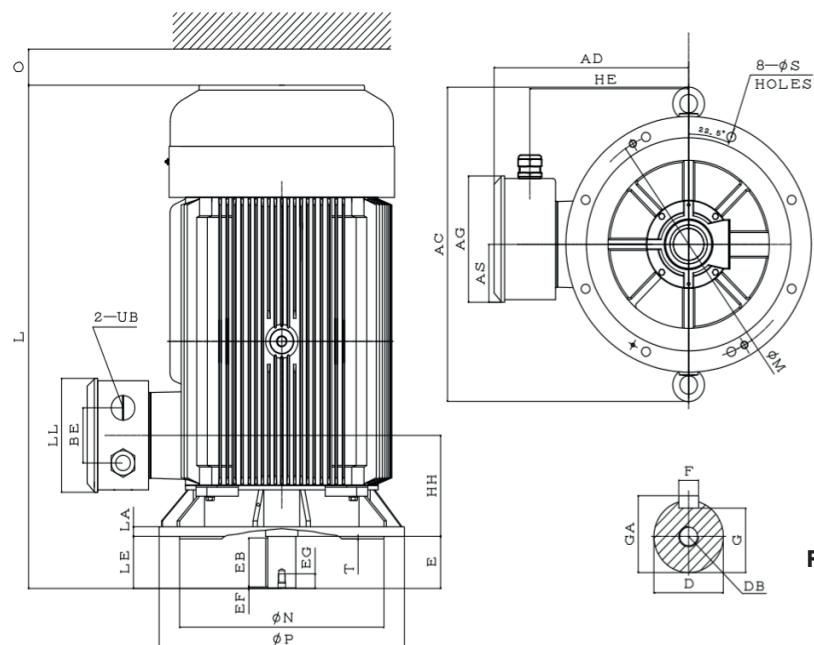
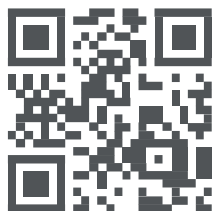


FIG. 14

| Output (kW) |     |     | FRAME<br>SIZE | FIG.<br>NO. | FLANGE DIMENSION |     |     |     |     |    |   | AC   | AD  | AG  | AS  | BE  | HE  | HH  | L    | LL  | O   |
|-------------|-----|-----|---------------|-------------|------------------|-----|-----|-----|-----|----|---|------|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 2P          | 4P  | 6P  |               |             | LA               | LE  | M   | N   | P   | S  | T |      |     |     |     |     |     |     |      |     |     |
| 315         | --- | --- | 355LA         | 14          | 30               | 140 | 740 | 680 | 800 | 24 | 6 | 1026 | 633 | 408 | 184 | 130 | 529 | 302 | 1714 | 372 | 230 |
| ---         | 315 | 250 | 355LB         |             | 30               | 170 | 740 | 680 | 800 | 24 | 6 | 1026 | 633 | 408 | 184 | 130 | 529 | 302 | 1645 | 372 | 230 |

| FRAME SIZE | UB    | SHAFT EXTENSION |     |     |    |    |    |    |     |     | BEARING   |                    |
|------------|-------|-----------------|-----|-----|----|----|----|----|-----|-----|-----------|--------------------|
|            |       | D               | E   | EB  | EF | EG | F  | G  | GA  | DB  | DRIVE END | OPPOSITE DRIVE END |
| 355LA      | M72X2 | 80              | 170 | 140 | 5  | 40 | 20 | 71 | 85  | M20 | 6317C3    | 7317B              |
| 355LB      | M72X2 | 100             | 210 | 180 | 5  | 48 | 28 | 90 | 106 | M24 | 6322C3    | 7322B              |

NOTE: 1.Tolerance of shaft end diameter D : m6  
 2.Tolerance of Key Width F : h9  
 3. Tolerance of N : js6  
 4.T-Box Assy with a cable grand bodies



For more information,  
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(EN)May '22 /GE-01-01

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