



# KC series / IE5



Ultra High efficiency  
Three Phase AC Induction motor



High  
Efficiency



Energy  
Saving



Minimizes  
Operating costs



## Why KRUGER ?

KRUGER has been a leading innovator and manufacturer of residential, commercial and industrial fan application solutions across Asia since 1985. Today with a direct presence in over 18 regions throughout Asia; world class R&D and manufacturing facilities; KRUGER are able to offer their customers unparalleled service and support at a local level. Our customers place their trust in KRUGER.

## Why use a KRUGER KC Motor series?

The KRUGER KC Series motors are premium-grade three-phase TEFC squirrel-cage induction motors designed for high reliability, robust performance, and global compliance.

With efficiency classes ranging from IE1 to IE5, the KC Series delivers optimal operating efficiency for HVAC, industrial, and general-purpose applications.

Developed through extensive benchmarking against leading global motor brands, the KC Series combines high electrical performance, superior mechanical durability, and flexible customization options.



| Efficiency Class                   | Target Application                                                           | Benefit                                                                                           |
|------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| IE1 – Standard                     | Cost-sensitive segments                                                      | Basic energy performance                                                                          |
| IE2 – High Efficiency              | General industries                                                           | Lower lifecycle cost                                                                              |
| IE3 – Premium Efficiency           | Global industrial standard                                                   | Best balance of cost & efficiency                                                                 |
| IE4 – Super-Premium Efficiency     | Energy-critical industries, AHU, pumps                                       | Ultra-low loss, reduces power bills significantly                                                 |
| <b>IE5 - Ultra High efficiency</b> | <b>Top energy-saving critical industries, AHU, pumps, Green applications</b> | <b>Highest energy efficiency, minimizes operating costs and maximizes sustainability benefits</b> |

## Specifications

| Description                                                 | Standard Specifications                                                                                                                                                                                                                                           | Option and Remark                                                                                                                                                                                                                          |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of Motor                                               | Squirrel cage induction motor                                                                                                                                                                                                                                     | -                                                                                                                                                                                                                                          |
| Design standard                                             | IEC 60034, IEC TS 60034-30-2, IEC 60072, IEC 60085                                                                                                                                                                                                                | NEMA MG-1                                                                                                                                                                                                                                  |
| Efficiency                                                  | IE5                                                                                                                                                                                                                                                               | Efficiency, Premium efficiency                                                                                                                                                                                                             |
| Frame size                                                  | 80 - 355                                                                                                                                                                                                                                                          | 143T - 500T                                                                                                                                                                                                                                |
| Enclosure                                                   | IP55                                                                                                                                                                                                                                                              | IP56, IP65                                                                                                                                                                                                                                 |
| Voltage and Frequency                                       | For 2.2kW and below:<br>220-240V (Delta) / 380-415V (Star), 50Hz<br>For 3.0kW and above:<br>380-415V (Delta) / 660-720V (Star), 50Hz                                                                                                                              | Other voltages/frequency such as 200V, 346V, 440V, 460V & 60Hz etc. can be supplied on request                                                                                                                                             |
| Power source conditions                                     | ± 5% of Rated voltage                                                                                                                                                                                                                                             | -                                                                                                                                                                                                                                          |
| Time duty                                                   | Continuous duty (S1)                                                                                                                                                                                                                                              | Short-time duty (S2)                                                                                                                                                                                                                       |
| Method of starting                                          | Inverter duty application (IEC TS 60034-30-2)                                                                                                                                                                                                                     | Direct Online (DOL) starting capability                                                                                                                                                                                                    |
| Direction of rotation                                       | CW / CCW                                                                                                                                                                                                                                                          | Direction of rotation of motor can be reversed by interchanging any two phases                                                                                                                                                             |
| Insulation and Temperature rise<br>Environmental conditions | Class F insulation and Class B temperature rise for Normal operating temperature motor<br>- Ambient temperature: -20°C to 40°C<br>- Place: Shadow, Non-hazardous<br>- Relative humidity: Less than 90%RH (non- condensation)<br>- Altitude: Less than 1000 meters | Class H insulation and Class B temperature rise for Smoke extraction motor. Designed and tested in accordance with EN 12101-3 standards<br>- F250: 250°C for 120 minutes<br>- F300: 300°C for 120 minutes<br>- F400: 400°C for 120 minutes |
| Lubrication                                                 | Class F : Lithium-base grease                                                                                                                                                                                                                                     | Class H : Heat resistance silicon thickened grease                                                                                                                                                                                         |
| Rotor winding                                               | Squirrel cage, aluminum conductor with end-ring and wafer blades integrally cast                                                                                                                                                                                  | -                                                                                                                                                                                                                                          |
| Cooling method                                              | IC411, Totally-enclosed fan-cooled (TEFC)                                                                                                                                                                                                                         | IC410: Totally Enclosed Non-Ventilated (TENV)<br>IC418: Totally Enclosed Air Over (TEAO)                                                                                                                                                   |
| Mounting                                                    | Foot Mount (B3)                                                                                                                                                                                                                                                   | Flange Mount (B5), Foot & Flange Mount (B35)                                                                                                                                                                                               |
| Shaft                                                       | Carbon steel, round shaft with key                                                                                                                                                                                                                                | -                                                                                                                                                                                                                                          |
| Bearing                                                     | Motors of frame size 160 and below are fitted with life - lubricated bearings<br>Motors of frame size 180 and above are fitted with open bearings and regreasing device                                                                                           | -                                                                                                                                                                                                                                          |
| Painting                                                    | Phenolic rust-proof base plus lacquer surface finish                                                                                                                                                                                                              | -                                                                                                                                                                                                                                          |
| Terminal box position                                       | Top                                                                                                                                                                                                                                                               | Right- or Left-hand side                                                                                                                                                                                                                   |
| Nameplate                                                   | Aluminum or stainless steel                                                                                                                                                                                                                                       | -                                                                                                                                                                                                                                          |

## Motors can be customized in accordance to customer's requirements:

- |                             |                            |                                           |
|-----------------------------|----------------------------|-------------------------------------------|
| 1. RTD temperature sensor   | 5. Special paint finished  | 9. Double ended shaft                     |
| 2. PTC thermistor           | 6. Special volt/Hz         | 10. Grease relief for frames down to 100L |
| 3. Anti-condensation heater | 7. Extend lead wire        | 11. Sun canopy                            |
| 4. Corrosion-proof          | 8. Special shaft extension | 12. Brake motor                           |



# KC- Ultra High Efficiency IE5 Performance Data at 50Hz

Synchronous speed (2Pole/3000RPM, 4Pole/1500RPM, 6Pole/1000RPM, 8Pole/750RPM)

| Rated Output |     | Pole | Frame Size | Rated Speed (RPM) | Rated Current (I <sub>FL</sub> ) |          |          | Efficiency (%) |        |        | PF COSφ | Rated Torque (T <sub>FL</sub> ) (Nm) | T <sub>ST</sub> / T <sub>FL</sub> | T <sub>m</sub> / T <sub>FL</sub> | I <sub>ST</sub> / I <sub>FL</sub> | Moment of Inertia (Kgm <sup>2</sup> ) | Weight (Kg) |
|--------------|-----|------|------------|-------------------|----------------------------------|----------|----------|----------------|--------|--------|---------|--------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|---------------------------------------|-------------|
|              |     |      |            |                   | 380V (A)                         | 400V (A) | 415V (A) | Full Load      | ¾ Load | ½ Load |         |                                      |                                   |                                  |                                   |                                       |             |
| 0.75         | 1   | 2    | 80         | 2890              | 1.65                             | 1.57     | 1.51     | 86.3           | 86.3   | 83.6   | 0.8     | 2.48                                 | 2.3                               | 2.3                              | 10                                | 0.0022                                | 26          |
|              |     | 4    | 80         | 1435              | 1.77                             | 1.68     | 1.62     | 88.2           | 88.2   | 84.8   | 0.73    | 4.99                                 | 2.3                               | 2.3                              | 8                                 | 0.0038                                | 32          |
|              |     | 6    | 90S        | 955               | 1.96                             | 1.86     | 1.79     | 85.7           | 85.7   | 83.2   | 0.68    | 7.5                                  | 2.1                               | 2.1                              | 8.5                               | 0.0064                                | 31          |
|              |     | 8    | 100L       | 710               | 2.11                             | 2        | 1.93     | 82             | 82     | 70.3   | 0.66    | 10.1                                 | 1.8                               | 2                                | 7.4                               | 0.0124                                | 42          |
| 1.1          | 1.5 | 2    | 80         | 2890              | 2.38                             | 2.26     | 2.18     | 87.8           | 87.8   | 86.2   | 0.8     | 3.63                                 | 2.3                               | 2.3                              | 9                                 | 0.0029                                | 30          |
|              |     | 4    | 90S        | 1445              | 2.56                             | 2.43     | 2.34     | 89.5           | 89.5   | 86.1   | 0.73    | 7.27                                 | 2.3                               | 2.3                              | 8.5                               | 0.005                                 | 34          |
|              |     | 6    | 90L        | 955               | 2.82                             | 2.68     | 2.58     | 87.2           | 87.2   | 84.7   | 0.68    | 11                                   | 2.1                               | 2.1                              | 8.5                               | 0.0083                                | 38          |
|              |     | 8    | 100L       | 710               | 3.01                             | 2.86     | 2.76     | 84             | 84     | 81.9   | 0.66    | 14.8                                 | 1.8                               | 2                                | 7.1                               | 0.0163                                | 49          |
| 1.5          | 2   | 2    | 90S        | 2900              | 3.02                             | 2.87     | 2.76     | 88.9           | 88.9   | 86.9   | 0.85    | 4.94                                 | 2.2                               | 2.3                              | 9                                 | 0.0033                                | 33          |
|              |     | 4    | 90L        | 1445              | 3.45                             | 3.28     | 3.16     | 90.4           | 90.4   | 87.4   | 0.73    | 9.91                                 | 2.3                               | 2.3                              | 8.5                               | 0.0058                                | 37          |
|              |     | 6    | 100L       | 960               | 3.63                             | 3.45     | 3.32     | 88.4           | 88.4   | 85.4   | 0.71    | 14.9                                 | 2.1                               | 2.1                              | 8                                 | 0.0169                                | 48          |
|              |     | 8    | 112M       | 710               | 3.98                             | 3.78     | 3.64     | 85.5           | 85.5   | 83.4   | 0.67    | 20.2                                 | 1.8                               | 2                                | 7.2                               | 0.0269                                | 61          |
| 2.2          | 3   | 2    | 90L        | 2900              | 4.36                             | 4.14     | 3.99     | 90.2           | 90.2   | 88.1   | 0.85    | 7.24                                 | 2.2                               | 2.3                              | 9.5                               | 0.0039                                | 37          |
|              |     | 4    | 100L       | 1460              | 4.75                             | 4.51     | 4.35     | 91.4           | 91.4   | 88.5   | 0.77    | 14.4                                 | 2.3                               | 2.3                              | 9                                 | 0.0131                                | 52          |
|              |     | 6    | 112M       | 970               | 5.25                             | 4.99     | 4.81     | 89.7           | 89.7   | 86.3   | 0.71    | 21.7                                 | 2.1                               | 2.1                              | 8                                 | 0.0262                                | 64          |
|              |     | 8    | 132S       | 710               | 5.56                             | 5.28     | 5.09     | 87.2           | 87.2   | 85.1   | 0.69    | 29.6                                 | 1.9                               | 2                                | 7.4                               | 0.0486                                | 80          |
| 3            | 4   | 2    | 100L       | 2900              | 5.89                             | 5.59     | 5.39     | 91.1           | 91.1   | 88.9   | 0.85    | 9.88                                 | 2.2                               | 2.3                              | 9.5                               | 0.0103                                | 48          |
|              |     | 4    | 100L       | 1460              | 6.43                             | 6.11     | 5.89     | 92.1           | 92.1   | 89.1   | 0.77    | 19.6                                 | 2.3                               | 2.3                              | 9                                 | 0.0178                                | 70          |
|              |     | 6    | 132S       | 975               | 7.19                             | 6.83     | 6.58     | 90.6           | 90.6   | 87.6   | 0.7     | 29.4                                 | 2                                 | 2.1                              | 7.5                               | 0.0481                                | 69          |
|              |     | 8    | 132M       | 720               | 7.47                             | 7.1      | 6.84     | 88.4           | 88.4   | 86.3   | 0.69    | 39.8                                 | 1.9                               | 2                                | 7.8                               | 0.0628                                | 95          |
| 4            | 5.5 | 2    | 112M       | 2915              | 7.61                             | 7.23     | 6.97     | 91.8           | 91.8   | 90     | 0.87    | 13.1                                 | 2.2                               | 2.3                              | 9.5                               | 0.0138                                | 62          |
|              |     | 4    | 112M       | 1460              | 8.62                             | 8.19     | 7.89     | 92.8           | 92.8   | 89.9   | 0.76    | 26.2                                 | 2.3                               | 2.3                              | 9                                 | 0.0243                                | 70          |
|              |     | 6    | 132M       | 975               | 9.37                             | 8.9      | 8.58     | 91.4           | 91.4   | 88.4   | 0.71    | 39.2                                 | 2                                 | 2.1                              | 8                                 | 0.0592                                | 79          |
|              |     | 8    | 160M       | 730               | 9.85                             | 9.36     | 9.02     | 89.4           | 89.4   | 88.1   | 0.69    | 52.3                                 | 1.9                               | 2                                | 7.9                               | 0.48                                  | 125         |
| 5.5          | 7.5 | 2    | 132S       | 2940              | 10.5                             | 9.97     | 9.61     | 92.6           | 92.6   | 90.8   | 0.86    | 17.9                                 | 2.2                               | 2.3                              | 9.5                               | 0.0356                                | 80          |
|              |     | 4    | 132S       | 1475              | 11.6                             | 11       | 10.6     | 93.4           | 93.4   | 90.7   | 0.77    | 35.6                                 | 2                                 | 2.3                              | 9.5                               | 0.0667                                | 96          |
|              |     | 6    | 132M       | 975               | 12.8                             | 12.1     | 11.7     | 92.2           | 92.2   | 89.1   | 0.71    | 53.9                                 | 2                                 | 2.1                              | 8                                 | 0.074                                 | 87          |
|              |     | 8    | 160L       | 730               | 13.2                             | 12.5     | 12.1     | 90.4           | 90.4   | 89.1   | 0.7     | 71.9                                 | 2                                 | 2                                | 8.1                               | 0.64                                  | 135         |
| 7.5          | 10  | 2    | 132S       | 2940              | 14.2                             | 13.5     | 13       | 93.3           | 93.3   | 91.1   | 0.86    | 24.4                                 | 2.2                               | 2.3                              | 9.5                               | 0.0422                                | 96          |
|              |     | 4    | 132M       | 1475              | 15                               | 14.2     | 13.7     | 94             | 94     | 91.6   | 0.81    | 48.6                                 | 2                                 | 2.3                              | 9.5                               | 0.0801                                | 110         |
|              |     | 6    | 160M       | 970               | 16.1                             | 15.3     | 14.8     | 92.9           | 92.9   | 89.8   | 0.76    | 73.8                                 | 2.1                               | 2.1                              | 8                                 | 1.27                                  | 150         |
|              |     | 8    | 160L       | 730               | 17.8                             | 16.9     | 16.3     | 91.3           | 91.3   | 90     | 0.7     | 98.1                                 | 2                                 | 2                                | 7.8                               | 1.11                                  | 160         |
| 11           | 15  | 2    | 160M       | 2940              | 20.4                             | 19.4     | 18.7     | 94             | 94     | 93     | 0.87    | 35.7                                 | 2.2                               | 2.3                              | 9.5                               | 0.26                                  | 160         |
|              |     | 4    | 160M       | 1470              | 21.8                             | 20.7     | 20       | 94.6           | 94.6   | 92.4   | 0.81    | 71.5                                 | 2                                 | 2.3                              | 9.5                               | 0.44                                  | 170         |
|              |     | 6    | 160L       | 970               | 23.2                             | 22       | 21.2     | 93.7           | 93.7   | 90.8   | 0.77    | 108                                  | 2.1                               | 2.1                              | 8.5                               | 1.39                                  | 185         |
|              |     | 8    | 180L       | 735               | 25.2                             | 23.9     | 23.1     | 92.2           | 92.2   | 91.3   | 0.72    | 143                                  | 1.9                               | 2                                | 7.9                               | 1.68                                  | 190         |
| 15           | 20  | 2    | 160M       | 2940              | 27.7                             | 26.3     | 25.4     | 94.5           | 94.5   | 93.1   | 0.87    | 48.7                                 | 2.2                               | 2.3                              | 9.5                               | 0.33                                  | 177         |
|              |     | 4    | 160L       | 1470              | 29.6                             | 28.1     | 27.1     | 95.1           | 95.1   | 92.9   | 0.81    | 97.4                                 | 2                                 | 2.3                              | 9.5                               | 0.71                                  | 200         |
|              |     | 6    | 180L       | 975               | 30.2                             | 28.7     | 27.7     | 94.3           | 94.3   | 92     | 0.8     | 147                                  | 2                                 | 2.1                              | 8.5                               | 1.7                                   | 210         |
|              |     | 8    | 200L       | 735               | 34.1                             | 32.4     | 31.2     | 92.9           | 92.9   | 91.8   | 0.72    | 195                                  | 1.9                               | 2                                | 8                                 | 2.39                                  | 220         |
| 18.5         | 25  | 2    | 160L       | 2940              | 34                               | 32.3     | 31.2     | 94.9           | 94.9   | 93.3   | 0.87    | 60.1                                 | 2.2                               | 2.3                              | 9.5                               | 0.39                                  | 195         |
|              |     | 4    | 180M       | 1475              | 36.4                             | 34.6     | 33.3     | 95.3           | 95.3   | 92.8   | 0.81    | 120                                  | 2                                 | 2.3                              | 9.5                               | 0.76                                  | 210         |
|              |     | 6    | 200L       | 980               | 37.1                             | 35.3     | 34       | 94.6           | 94.6   | 92.4   | 0.8     | 180                                  | 2.1                               | 2.1                              | 8.5                               | 1.93                                  | 235         |
|              |     | 8    | 225S       | 740               | 40.2                             | 38.2     | 36.8     | 93.3           | 93.3   | 92.2   | 0.75    | 239                                  | 1.9                               | 2                                | 8                                 | 2.88                                  | 310         |
| 22           | 30  | 2    | 180M       | 2945              | 40.4                             | 38.4     | 37       | 95.1           | 95.1   | 93.6   | 0.87    | 71.3                                 | 2.2                               | 2.3                              | 9.5                               | 0.66                                  | 210         |
|              |     | 4    | 180L       | 1475              | 43.2                             | 41.1     | 39.6     | 95.5           | 95.5   | 93.2   | 0.81    | 142                                  | 2                                 | 2.3                              | 9.5                               | 0.85                                  | 235         |
|              |     | 6    | 200L       | 980               | 43.5                             | 41.3     | 39.8     | 94.9           | 94.9   | 92.6   | 0.81    | 214                                  | 2.1                               | 2.1                              | 8.5                               | 2.55                                  | 240         |
|              |     | 8    | 225M       | 740               | 47                               | 44.6     | 43       | 93.6           | 93.6   | 92.6   | 0.76    | 284                                  | 1.9                               | 2                                | 8.3                               | 3.85                                  | 360         |
| 30           | 40  | 2    | 200L       | 2970              | 54.2                             | 51.5     | 49.7     | 95.5           | 95.5   | 94.4   | 0.88    | 96.5                                 | 2.2                               | 2.3                              | 9                                 | 0.77                                  | 280         |
|              |     | 4    | 200L       | 1475              | 58.7                             | 55.7     | 53.7     | 95.9           | 95.9   | 94.1   | 0.81    | 194                                  | 2                                 | 2.3                              | 9                                 | 1.27                                  | 300         |
|              |     | 6    | 225M       | 980               | 58.3                             | 55.4     | 53.4     | 95.3           | 95.3   | 92.9   | 0.82    | 292                                  | 2                                 | 2.1                              | 8.3                               | 2.81                                  | 375         |
|              |     | 8    | 250M       | 740               | 62.9                             | 59.8     | 57.6     | 94.1           | 94.1   | 93     | 0.77    | 387                                  | 1.9                               | 2                                | 7.8                               | 5.42                                  | 400         |
| 37           | 50  | 2    | 200L       | 2970              | 66.7                             | 63.3     | 61.1     | 95.8           | 95.8   | 94.5   | 0.88    | 119                                  | 2.2                               | 2.3                              | 9                                 | 1.34                                  | 310         |
|              |     | 4    | 225S       | 1480              | 70.5                             | 67       | 64.5     | 96.1           | 96.1   | 94.3   | 0.83    | 239                                  | 2                                 | 2.3                              | 9                                 | 1.94                                  | 400         |
|              |     | 6    | 250M       | 985               | 70.8                             | 67.3     | 64.9     | 95.6           | 95.6   | 93.7   | 0.83    | 359                                  | 2.1                               | 2.1                              | 8.3                               | 3.63                                  | 460         |



# **KC- Ultra High Efficiency IE5 Performance Data at 50Hz** Synchronous speed (2Pole/3000RPM, 4Pole/1500RPM, 6Pole/1000RPM, 8Pole/750RPM)

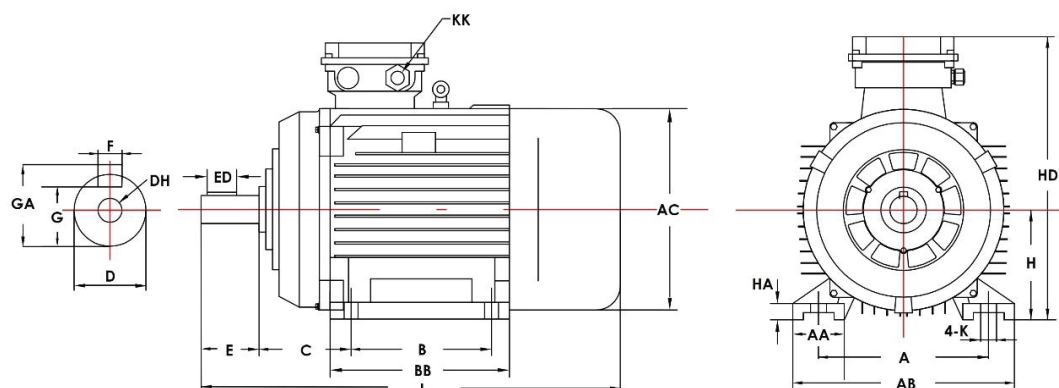
| Rated Output |     | Pole | Frame Size | Rated Speed (RPM) | Rated Current (I <sub>FL</sub> ) |          |          | Efficiency (%) |        |        | PF COSφ | Rated Torque (T <sub>FL</sub> ) (Nm) | T <sub>ST</sub> / T <sub>FL</sub> | T <sub>m</sub> / T <sub>FL</sub> | I <sub>ST</sub> / I <sub>FL</sub> | Moment of Inertia (Kgm <sup>2</sup> ) | Weight (Kg) |
|--------------|-----|------|------------|-------------------|----------------------------------|----------|----------|----------------|--------|--------|---------|--------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|---------------------------------------|-------------|
|              |     |      |            |                   | 380V (A)                         | 400V (A) | 415V (A) | Full Load      | ¾ Load | ½ Load |         |                                      |                                   |                                  |                                   |                                       |             |
| 45           | 60  | 2    | 225M       | 2970              | 80.9                             | 76.9     | 74.1     | 96             | 96     | 94.7   | 0.88    | 145                                  | 2.2                               | 2.3                              | 9                                 | 1.63                                  | 415         |
|              |     | 4    | 225M       | 1480              | 85.5                             | 81.3     | 78.3     | 96.3           | 96.3   | 94.7   | 0.83    | 290                                  | 2                                 | 2.3                              | 9                                 | 2.44                                  | 440         |
|              |     | 6    | 280S       | 985               | 86                               | 81.7     | 78.7     | 95.8           | 95.8   | 93.7   | 0.83    | 436                                  | 2                                 | 2                                | 8.5                               | 4.17                                  | 605         |
|              |     | 8    | 280M       | 740               | 92.6                             | 87.9     | 84.8     | 94.7           | 94.7   | 93.6   | 0.78    | 581                                  | 1.8                               | 2                                | 7.9                               | 7.08                                  | 600         |
| 55           | 75  | 2    | 250M       | 2970              | 98.7                             | 93.8     | 90.4     | 96.2           | 96.2   | 94.9   | 0.88    | 177                                  | 2.2                               | 2.3                              | 9                                 | 1.98                                  | 490         |
|              |     | 4    | 250M       | 1480              | 106                              | 100      | 96.7     | 96.5           | 96.5   | 95     | 0.82    | 355                                  | 2                                 | 2.3                              | 9                                 | 3                                     | 550         |
|              |     | 6    | 280M       | 985               | 104                              | 98.4     | 94.9     | 96             | 96     | 93.8   | 0.84    | 533                                  | 2                                 | 2                                | 8.5                               | 4.8                                   | 660         |
|              |     | 8    | 315S       | 745               | 113                              | 107      | 103      | 94.9           | 94.9   | 94     | 0.78    | 705                                  | 1.8                               | 2                                | 8.1                               | 7.72                                  | 1140        |
| 75           | 100 | 2    | 280S       | 2980              | 134                              | 127      | 123      | 96.5           | 96.5   | 95     | 0.88    | 240                                  | 2                                 | 2.3                              | 8.5                               | 2.12                                  | 660         |
|              |     | 4    | 280S       | 1485              | 135                              | 129      | 124      | 96.7           | 96.7   | 95.1   | 0.87    | 482                                  | 2                                 | 2.3                              | 8.5                               | 3.51                                  | 700         |
|              |     | 6    | 315S       | 990               | 141                              | 134      | 129      | 96.3           | 96.3   | 95.2   | 0.84    | 723                                  | 2                                 | 2                                | 8                                 | 5.07                                  | 1320        |
|              |     | 8    | 315M       | 745               | 153                              | 146      | 140      | 95.3           | 95.3   | 94.4   | 0.78    | 961                                  | 1.8                               | 2                                | 7.6                               | 9.23                                  | 1180        |
| 90           | 125 | 2    | 280M       | 2980              | 161                              | 153      | 147      | 96.6           | 96.6   | 95.2   | 0.88    | 288                                  | 2                                 | 2.3                              | 8.5                               | 2.37                                  | 700         |
|              |     | 4    | 280M       | 1485              | 160                              | 152      | 147      | 96.9           | 96.9   | 95.6   | 0.88    | 579                                  | 2                                 | 2.3                              | 8.5                               | 4.91                                  | 800         |
|              |     | 6    | 315M       | 990               | 167                              | 158      | 153      | 96.5           | 96.5   | 95.4   | 0.85    | 868                                  | 2                                 | 2                                | 8                                 | 5.59                                  | 1450        |
|              |     | 8    | 315L       | 745               | 184                              | 174      | 168      | 95.5           | 95.5   | 94.4   | 0.78    | 1154                                 | 1.8                               | 2                                | 7.7                               | 9.64                                  | 1350        |
| 110          | 150 | 2    | 315S       | 2985              | 196                              | 186      | 180      | 96.8           | 96.8   | 95.3   | 0.88    | 352                                  | 1.9                               | 2.3                              | 8.5                               | 2.54                                  | 1170        |
|              |     | 4    | 315S       | 1490              | 194                              | 184      | 177      | 97             | 97     | 95.8   | 0.89    | 705                                  | 2                                 | 2.2                              | 8.5                               | 5.21                                  | 1200        |
|              |     | 6    | 315L       | 990               | 204                              | 193      | 186      | 96.6           | 96.6   | 95.6   | 0.85    | 1061                                 | 2                                 | 2                                | 8                                 | 6.25                                  | 1480        |
|              |     | 8    | 315L       | 745               | 224                              | 213      | 205      | 95.7           | 95.7   | 94.6   | 0.78    | 1410                                 | 1.8                               | 2                                | 7.7                               | 10.7                                  | 1480        |
| 132          | 180 | 2    | 315M       | 2985              | 235                              | 223      | 215      | 96.9           | 96.9   | 95.4   | 0.88    | 422                                  | 1.9                               | 2.3                              | 8.5                               | 2.86                                  | 1300        |
|              |     | 4    | 315M       | 1490              | 232                              | 220      | 212      | 97.1           | 97.1   | 96.1   | 0.89    | 846                                  | 2                                 | 2.2                              | 8.5                               | 5.48                                  | 1300        |
|              |     | 6    | 315L       | 990               | 241                              | 229      | 221      | 96.8           | 96.8   | 95.7   | 0.86    | 1273                                 | 2                                 | 2                                | 8                                 | 7.69                                  | 1580        |
|              |     | 8    | 355M       | 745               | 265                              | 251      | 242      | 95.9           | 95.9   | 94.8   | 0.79    | 1692                                 | 1.8                               | 2                                | 7.8                               | 11.8                                  | 1900        |
| 160          | 215 | 2    | 315L       | 2985              | 285                              | 271      | 261      | 97             | 97     | 95.6   | 0.88    | 512                                  | 1.9                               | 2.2                              | 8.5                               | 3.38                                  | 1360        |
|              |     | 4    | 315L       | 1490              | 281                              | 267      | 257      | 97.2           | 97.2   | 96.2   | 0.89    | 1025                                 | 2                                 | 2.2                              | 8.5                               | 5.7                                   | 1320        |
|              |     | 6    | 355M       | 995               | 295                              | 280      | 270      | 96.9           | 96.9   | 96.2   | 0.85    | 1536                                 | 1.9                               | 2                                | 8                                 | 8.28                                  | 2100        |
|              |     | 8    | 355M       | 745               | 320                              | 304      | 293      | 96.1           | 96.1   | 95.1   | 0.79    | 2051                                 | 1.8                               | 2                                | 7.8                               | 13.1                                  | 2050        |
| 185          | 250 | 2    | 315L       | 2985              | 329                              | 312      | 301      | 97.1           | 97.1   | 95.6   | 0.88    | 592                                  | 1.9                               | 2.2                              | 8.5                               | 3.58                                  | 1410        |
|              |     | 4    | 315L       | 1490              | 325                              | 308      | 297      | 97.3           | 97.3   | 96.3   | 0.89    | 1186                                 | 2                                 | 2.2                              | 8.5                               | 5.9                                   | 1360        |
|              |     | 6    | 355M       | 995               | 345                              | 328      | 316      | 97             | 97     | 96.2   | 0.84    | 1775                                 | 1.9                               | 2                                | 8                                 | 8.58                                  | 2150        |
| 200          | 270 | 2    | 315L       | 2985              | 355                              | 337      | 325      | 97.2           | 97.2   | 95.6   | 0.88    | 640                                  | 1.8                               | 2.2                              | 8.5                               | 4.05                                  | 1540        |
|              |     | 4    | 315L       | 1490              | 351                              | 333      | 321      | 97.4           | 97.4   | 96.3   | 0.89    | 1282                                 | 2                                 | 2.2                              | 8.5                               | 6.77                                  | 1600        |
|              |     | 6    | 355M       | 995               | 373                              | 354      | 341      | 97             | 97     | 96.2   | 0.84    | 1919                                 | 1.9                               | 2                                | 8                                 | 8.66                                  | 2150        |
|              |     | 8    | 355L       | 745               | 399                              | 379      | 366      | 96.3           | 96.3   | 95.2   | 0.79    | 2563                                 | 1.8                               | 2                                | 7.8                               | 14.4                                  | 2200        |
| 220          | 300 | 2    | 355M       | 2990              | 391                              | 371      | 358      | 97.2           | 97.2   | 95.6   | 0.88    | 703                                  | 1.8                               | 2.2                              | 8.5                               | 6.53                                  | 1860        |
|              |     | 4    | 355M       | 1495              | 394                              | 375      | 361      | 97.4           | 97.4   | 96.3   | 0.87    | 1405                                 | 2                                 | 2.2                              | 8.5                               | 7.58                                  | 2100        |
|              |     | 6    | 355L       | 995               | 410                              | 390      | 376      | 97             | 97     | 96.2   | 0.84    | 2111                                 | 1.9                               | 2                                | 8                                 | 8.78                                  | 2200        |
| 250          | 335 | 2    | 355M       | 2990              | 434                              | 412      | 398      | 97.2           | 97.2   | 95.6   | 0.9     | 798                                  | 1.8                               | 2.2                              | 8.5                               | 6.87                                  | 2200        |
|              |     | 4    | 355M       | 1495              | 438                              | 416      | 401      | 97.4           | 97.4   | 96.4   | 0.89    | 1597                                 | 2                                 | 2.2                              | 8.5                               | 7.83                                  | 2100        |
|              |     | 6    | 355L       | 995               | 466                              | 443      | 427      | 97             | 97     | 96.2   | 0.84    | 2399                                 | 1.9                               | 2                                | 8                                 | 8.8                                   | 2330        |
| 280          | 380 | 2    | 355L       | 2990              | 486                              | 462      | 445      | 97.2           | 97.2   | 95.6   | 0.9     | 894                                  | 1.8                               | 2.2                              | 8.5                               | 7.3                                   | 2160        |
|              |     | 4    | 355L       | 1495              | 496                              | 472      | 454      | 97.4           | 97.4   | 96.4   | 0.88    | 1788                                 | 2                                 | 2.2                              | 8.5                               | 8.06                                  | 2220        |
|              |     | 6    | 355LB      | 995               | 528                              | 502      | 484      | 97             | 97     | 96.2   | 0.83    | 2687                                 | 1.6                               | 2                                | 8                                 | 8.94                                  | 2400        |
| 315          | 425 | 2    | 355L       | 2990              | 547                              | 520      | 501      | 97.2           | 97.2   | 95.7   | 0.9     | 1006                                 | 1.8                               | 2.2                              | 8.5                               | 7.41                                  | 2450        |
|              |     | 4    | 355L       | 1495              | 558                              | 530      | 511      | 97.4           | 97.4   | 96.5   | 0.88    | 2012                                 | 2                                 | 2.2                              | 8.5                               | 8.19                                  | 2400        |
| 355          | 480 | 2    | 355LB      | 2990              | 617                              | 586      | 565      | 97.2           | 97.2   | 95.8   | 0.9     | 1134                                 | 1.1                               | 1.8                              | 8.6                               | 7.71                                  | 2450        |
|              |     | 4    | 355LB      | 1495              | 629                              | 598      | 576      | 97.4           | 97.4   | 96.5   | 0.88    | 2267                                 | 1.7                               | 2.2                              | 8.5                               | 8.53                                  | 2420        |

## **Note:**

1. IFL = Full Load Current; IST = Locked Rotor Current; TST = Locked Rotor Torque; TM = Maximum or Breakdown Torque.
2. The data above is based on 400V design, 380V and 415V data is the reference value.
3. Tolerance according to IEC60034-1; Current tolerance: ±3%
4. All technical details are subject to change without prior notice.

## B3 Mounting Dimensions

F#80~90 without lifting bolt

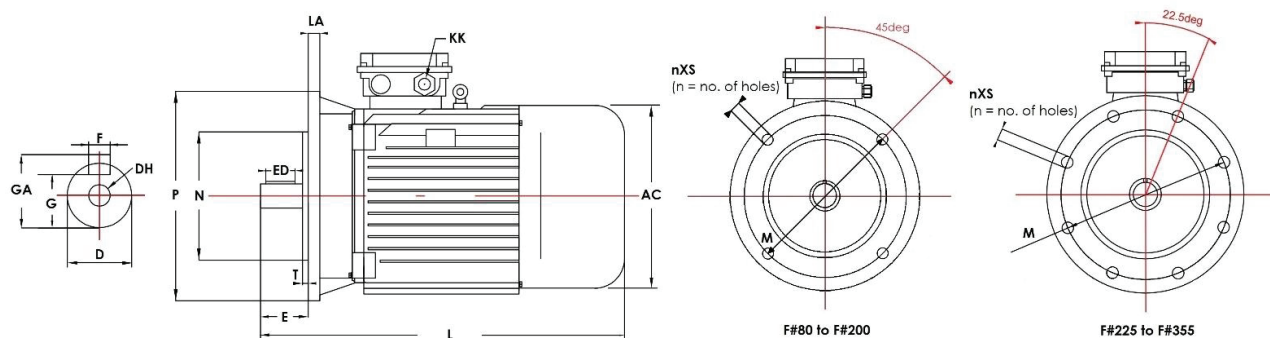


| Frame Size | Pole    | Mounting Dimensions |     |     |     |      | Shaft Dimensions |        |     |     |    |      |      | Overall Dimensions |     |     |     |    |      |         |      |
|------------|---------|---------------------|-----|-----|-----|------|------------------|--------|-----|-----|----|------|------|--------------------|-----|-----|-----|----|------|---------|------|
|            |         | A                   | B   | C   | H   | K    | D                | DH     | E   | ED  | F  | G    | GA   | AA                 | AB  | AC  | BB  | HA | HD   | KK      | L    |
| 80         | 2,4,6,8 | 125                 | 100 | 50  | 80  | 10   | 19j6             | M6X16  | 40  | 25  | 6  | 15.5 | 21.5 | 34                 | 160 | 175 | 167 | 10 | 230  | M25X1.5 | 320  |
| 90S        | 2,4,6,8 | 140                 | 100 | 56  | 90  | 10   | 24j6             | M8X19  | 50  | 40  | 8  | 20   | 27   | 36                 | 176 | 205 | 180 | 12 | 245  | M25X1.5 | 350  |
| 90L        | 2,4,6,8 | 140                 | 125 | 56  | 90  | 10   | 24j6             | M8X19  | 50  | 40  | 8  | 20   | 27   | 36                 | 176 | 205 | 210 | 12 | 245  | M25X1.5 | 380  |
| 100L       | 2,4,6,8 | 160                 | 140 | 63  | 100 | 12   | 28j6             | M10X22 | 60  | 45  | 8  | 24   | 31   | 40                 | 200 | 215 | 233 | 14 | 270  | M25X1.5 | 440  |
| 112M       | 2,4,6,8 | 190                 | 140 | 70  | 112 | 12   | 28j6             | M10X22 | 60  | 45  | 8  | 24   | 31   | 45                 | 226 | 255 | 248 | 15 | 315  | M32X1.5 | 470  |
| 132S       | 2,4,6,8 | 216                 | 140 | 89  | 132 | 12   | 38k6             | M12X28 | 80  | 63  | 10 | 33   | 41   | 55                 | 262 | 310 | 256 | 18 | 365  | M32X1.5 | 550  |
| 132M       | 2,4,6,8 | 216                 | 178 | 89  | 132 | 12   | 38k6             | M12X28 | 80  | 63  | 10 | 33   | 41   | 55                 | 262 | 310 | 256 | 18 | 365  | M32X1.5 | 550  |
| 160M       | 2,4,6,8 | 254                 | 210 | 108 | 160 | 14.5 | 42k6             | M16X36 | 110 | 90  | 12 | 37   | 45   | 65                 | 314 | 340 | 315 | 20 | 440  | M40X1.5 | 730  |
| 160L       | 2,4,6,8 | 254                 | 254 | 108 | 160 | 14.5 | 42k6             | M16X36 | 110 | 90  | 12 | 37   | 45   | 65                 | 314 | 340 | 355 | 20 | 440  | M40X1.5 | 760  |
| 180M       | 2,4,6,8 | 279                 | 241 | 121 | 180 | 14.5 | 48k6             | M16X36 | 110 | 90  | 14 | 42.5 | 51.5 | 70                 | 349 | 390 | 359 | 22 | 480  | M40X1.5 | 780  |
| 180L       | 2,4,6,8 | 279                 | 279 | 121 | 180 | 14.5 | 48k6             | M16X36 | 110 | 90  | 14 | 42.5 | 51.5 | 70                 | 349 | 390 | 394 | 22 | 480  | M40X1.5 | 810  |
| 200L       | 2,4,6,8 | 318                 | 305 | 133 | 200 | 18.5 | 55m6             | M20X42 | 110 | 90  | 16 | 49   | 59   | 70                 | 388 | 445 | 454 | 25 | 535  | M50X1.5 | 885  |
| 225S       | 4,6,8   | 356                 | 286 | 149 | 225 | 18.5 | 60m6             | M20X42 | 140 | 110 | 18 | 53   | 64   | 75                 | 431 | 495 | 466 | 28 | 585  | M50X1.5 | 895  |
| 225M       | 2       | 356                 | 311 | 149 | 225 | 18.5 | 55m6             | M20X42 | 110 | 90  | 16 | 49   | 59   | 75                 | 431 | 495 | 431 | 28 | 585  | M50X1.5 | 890  |
| 225M       | 4,6,8   | 356                 | 311 | 149 | 225 | 18.5 | 60m6             | M20X42 | 140 | 110 | 18 | 53   | 64   | 75                 | 431 | 495 | 466 | 28 | 585  | M50X1.5 | 925  |
| 250M       | 2       | 406                 | 349 | 168 | 250 | 24   | 60m6             | M20X42 | 140 | 110 | 18 | 53   | 64   | 80                 | 484 | 550 | 515 | 30 | 655  | M63X1.5 | 1020 |
| 250M       | 4,6,8   | 406                 | 349 | 168 | 250 | 24   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 80                 | 484 | 550 | 515 | 30 | 655  | M63X1.5 | 1020 |
| 280S       | 2       | 457                 | 368 | 190 | 280 | 24   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 85                 | 542 | 630 | 550 | 35 | 720  | M63X1.5 | 1060 |
| 280S       | 4,6,8   | 457                 | 368 | 190 | 280 | 24   | 75m6             | M20X42 | 140 | 110 | 20 | 67.5 | 79.5 | 85                 | 542 | 630 | 550 | 35 | 720  | M63X1.5 | 1060 |
| 280M       | 2       | 457                 | 419 | 190 | 280 | 24   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 85                 | 542 | 630 | 550 | 35 | 720  | M63X1.5 | 1060 |
| 280M       | 4,6,8   | 457                 | 419 | 190 | 280 | 24   | 75m6             | M20X42 | 140 | 110 | 20 | 67.5 | 79.5 | 85                 | 542 | 630 | 550 | 35 | 720  | M63X1.5 | 1060 |
| 315S       | 2       | 508                 | 406 | 216 | 315 | 28   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 120                | 628 | 645 | 680 | 45 | 870  | M63X1.5 | 1300 |
| 315S       | 4,6,8   | 508                 | 406 | 216 | 315 | 28   | 80m6             | M20X42 | 170 | 140 | 22 | 71   | 85   | 120                | 628 | 645 | 680 | 45 | 870  | M63X1.5 | 1360 |
| 315M       | 2       | 508                 | 457 | 216 | 315 | 28   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 120                | 628 | 645 | 680 | 45 | 870  | M63X1.5 | 1400 |
| 315M       | 4,6,8   | 508                 | 457 | 216 | 315 | 28   | 80m6             | M20X42 | 170 | 140 | 22 | 71   | 85   | 120                | 628 | 645 | 680 | 45 | 870  | M63X1.5 | 1460 |
| 315L       | 2       | 508                 | 508 | 216 | 315 | 28   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 120                | 628 | 645 | 680 | 45 | 870  | M63X1.5 | 1400 |
| 315L       | 4,6,8   | 508                 | 508 | 216 | 315 | 28   | 80m6             | M20X42 | 170 | 140 | 22 | 71   | 85   | 120                | 628 | 645 | 680 | 45 | 870  | M63X1.5 | 1460 |
| 355M       | 2       | 610                 | 560 | 254 | 355 | 28   | 75m6             | M24X50 | 140 | 110 | 20 | 67.5 | 79.5 | 150                | 766 | 740 | 985 | 52 | 1030 | M63X1.5 | 1620 |
| 355M       | 4,6,8   | 610                 | 560 | 254 | 355 | 28   | 95m6             | M24X50 | 170 | 140 | 25 | 86   | 100  | 150                | 766 | 740 | 985 | 52 | 1030 | M63X1.5 | 1660 |
| 355L       | 2       | 610                 | 630 | 254 | 355 | 28   | 75m6             | M24X50 | 140 | 110 | 20 | 67.5 | 79.5 | 150                | 766 | 740 | 985 | 52 | 1030 | M63X1.5 | 1690 |
| 355L       | 4,6,8   | 610                 | 630 | 254 | 355 | 28   | 95m6             | M24X50 | 170 | 140 | 25 | 86   | 100  | 150                | 766 | 740 | 985 | 52 | 1030 | M63X1.5 | 1720 |
| 355LB      | 2       | 610                 | 630 | 254 | 355 | 28   | 75m6             | M24X50 | 140 | 110 | 20 | 67.5 | 79.5 | 150                | 766 | 740 | 985 | 52 | 1030 | M63X1.5 | 1690 |
| 355LB      | 4,6,8   | 610                 | 630 | 254 | 355 | 28   | 95m6             | M24X50 | 170 | 140 | 25 | 86   | 100  | 150                | 766 | 740 | 985 | 52 | 1030 | M63X1.5 | 1720 |

All technical details are subject to change without any prior notice  
All dimensions in millimetres (mm).

## B5 Mounting Dimensions

F#80~90 without lifting bolt



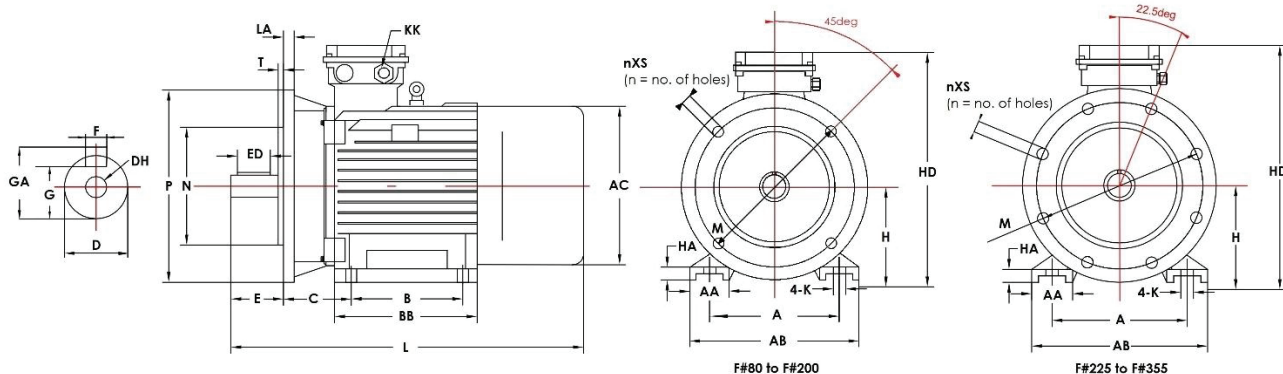
| Frame Size | Pole    | Mounting Dimensions |     |     |         |     | Shaft Dimensions |        |     |     |    |      |      | Overall Dimensions |         |      |     |
|------------|---------|---------------------|-----|-----|---------|-----|------------------|--------|-----|-----|----|------|------|--------------------|---------|------|-----|
|            |         | M                   | N   | P   | S       | T   | D                | DH     | E   | ED  | F  | G    | GA   | AC                 | KK      | L    | LA  |
| 80         | 2,4,6,8 | 165                 | 130 | 200 | 4-ø12   | 3.5 | 19j6             | M6X16  | 40  | 25  | 6  | 15.5 | 21.5 | 175                | M25X1.5 | 320  | 12  |
| 90S        | 2,4,6,8 | 165                 | 130 | 200 | 4-ø12   | 3.5 | 24j6             | M8X19  | 50  | 40  | 8  | 20   | 27   | 205                | M25X1.5 | 350  | 12  |
| 90L        | 2,4,6,8 | 165                 | 130 | 200 | 4-ø12   | 3.5 | 24j6             | M8X19  | 50  | 40  | 8  | 20   | 27   | 205                | M25X1.5 | 380  | 12  |
| 100L       | 2,4,6,8 | 215                 | 180 | 250 | 4-ø14.5 | 4   | 28j6             | M10X22 | 60  | 45  | 8  | 24   | 31   | 215                | M25X1.5 | 440  | 13  |
| 112M       | 2,4,6,8 | 215                 | 180 | 250 | 4-ø14.5 | 4   | 28j6             | M10X22 | 60  | 45  | 8  | 24   | 31   | 255                | M32X1.5 | 470  | 14  |
| 132S       | 2,4,6,8 | 265                 | 230 | 300 | 4-ø14.5 | 4   | 38k6             | M12X28 | 80  | 63  | 10 | 33   | 41   | 310                | M32X1.5 | 550  | 14  |
| 132M       | 2,4,6,8 | 265                 | 230 | 300 | 4-ø14.5 | 4   | 38k6             | M12X28 | 80  | 63  | 10 | 33   | 41   | 310                | M32X1.5 | 550  | 14  |
| 160M       | 2,4,6,8 | 300                 | 250 | 350 | 4-ø18.5 | 5   | 42k6             | M16X36 | 110 | 90  | 12 | 37   | 45   | 340                | M40X1.5 | 730  | 16  |
| 160L       | 2,4,6,8 | 300                 | 250 | 350 | 4-ø18.5 | 5   | 42k6             | M16X36 | 110 | 90  | 12 | 37   | 45   | 340                | M40X1.5 | 760  | 16  |
| 180M       | 2,4,6,8 | 300                 | 250 | 350 | 4-ø18.5 | 5   | 48k6             | M16X36 | 110 | 90  | 14 | 42.5 | 51.5 | 390                | M40X1.5 | 780  | 15  |
| 180L       | 2,4,6,8 | 300                 | 250 | 350 | 4-ø18.5 | 5   | 48k6             | M16X36 | 110 | 90  | 14 | 42.5 | 51.5 | 390                | M40X1.5 | 810  | 15  |
| 200L       | 2,4,6,8 | 350                 | 300 | 400 | 4-ø18.5 | 5   | 55m6             | M20X42 | 110 | 90  | 16 | 49   | 59   | 445                | M50X1.5 | 885  | 17  |
| 225S       | 4,6,8   | 400                 | 350 | 450 | 8-ø18.5 | 5   | 60m6             | M20X42 | 140 | 110 | 18 | 53   | 64   | 495                | M50X1.5 | 895  | 20  |
| 225M       | 2       | 400                 | 350 | 450 | 8-ø18.5 | 5   | 55m6             | M20X42 | 110 | 90  | 16 | 49   | 59   | 495                | M50X1.5 | 890  | 20  |
| 225M       | 4,6,8   | 400                 | 350 | 450 | 8-ø18.5 | 5   | 60m6             | M20X42 | 140 | 110 | 18 | 53   | 64   | 495                | M50X1.5 | 925  | 20  |
| 250M       | 2       | 500                 | 450 | 550 | 8-ø18.5 | 5   | 60m6             | M20X42 | 140 | 110 | 18 | 53   | 64   | 550                | M63X1.5 | 1020 | 22  |
| 250M       | 4,6,8   | 500                 | 450 | 550 | 8-ø18.5 | 5   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 550                | M63X1.5 | 1020 | 22  |
| 280S       | 2       | 500                 | 450 | 550 | 8-ø18.5 | 5   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 630                | M63X1.5 | 1060 | 22  |
| 280S       | 4,6,8   | 500                 | 450 | 550 | 8-ø18.5 | 5   | 75m6             | M20X42 | 140 | 110 | 20 | 67.5 | 79.5 | 630                | M63X1.5 | 1060 | 22  |
| 280M       | 2       | 500                 | 450 | 550 | 8-ø18.5 | 5   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 630                | M63X1.5 | 1060 | 22  |
| 280M       | 4,6,8   | 500                 | 450 | 550 | 8-ø18.5 | 5   | 75m6             | M20X42 | 140 | 110 | 20 | 67.5 | 79.5 | 630                | M63X1.5 | 1060 | 22  |
| 315S       | 2       | 600                 | 550 | 660 | 8-ø24   | 6   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 645                | M63X1.5 | 1300 | 22  |
| 315S       | 4,6,8   | 600                 | 550 | 660 | 8-ø24   | 6   | 80m6             | M20X42 | 170 | 140 | 22 | 71   | 85   | 645                | M63X1.5 | 1360 | 22  |
| 315M       | 2       | 600                 | 550 | 660 | 8-ø24   | 6   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 645                | M63X1.5 | 1400 | 22  |
| 315M       | 4,6,8   | 600                 | 550 | 660 | 8-ø24   | 6   | 80m6             | M20X42 | 170 | 140 | 22 | 71   | 85   | 645                | M63X1.5 | 1460 | 22  |
| 315L       | 2       | 600                 | 550 | 660 | 8-ø24   | 6   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 645                | M63X1.5 | 1400 | 22  |
| 315L       | 4,6,8   | 600                 | 550 | 660 | 8-ø24   | 6   | 80m6             | M20X42 | 170 | 140 | 22 | 71   | 85   | 645                | M63X1.5 | 1460 | 22  |
| 355M       | 2       | 740                 | 680 | 800 | 8-ø24   | 6   | 75m6             | M24X50 | 140 | 110 | 20 | 67.5 | 79.5 | 740                | M63X1.5 | 1620 | 25  |
| 355M       | 4,6,8   | 740                 | 680 | 800 | 8-ø24   | 6   | 95m6             | M24X50 | 170 | 140 | 25 | 86   | 100  | 740                | M63X1.5 | 1660 | 2=5 |
| 355L       | 2       | 740                 | 680 | 800 | 8-ø24   | 6   | 75m6             | M24X50 | 140 | 110 | 20 | 67.5 | 79.5 | 740                | M63X1.5 | 1690 | 25  |
| 355L       | 4,6,8   | 740                 | 680 | 800 | 8-ø24   | 6   | 95m6             | M24X50 | 170 | 140 | 25 | 86   | 100  | 740                | M63X1.5 | 1720 | 25  |
| 355LB      | 2       | 740                 | 680 | 800 | 8-ø24   | 6   | 75m6             | M24X50 | 140 | 110 | 20 | 67.5 | 79.5 | 740                | M63X1.5 | 1690 | 25  |
| 355LB      | 4,6,8   | 740                 | 680 | 800 | 8-ø24   | 6   | 95m6             | M24X50 | 170 | 140 | 25 | 86   | 100  | 740                | M63X1.5 | 1720 | 25  |

All technical details are subject to change without any prior notice  
All dimensions in millimetres (mm).



## B35 Mounting Dimensions

F#80~90 without lifting bolt



| Frame Size | Pole    | Mounting Dimensions |     |     |     |      |     |     |     |         |     | Shaft Dimensions |        |     |     |    |      |      |     | Overall Dimensions |     |     |    |      |         |      |    |  |  |
|------------|---------|---------------------|-----|-----|-----|------|-----|-----|-----|---------|-----|------------------|--------|-----|-----|----|------|------|-----|--------------------|-----|-----|----|------|---------|------|----|--|--|
|            |         | A                   | B   | C   | H   | K    | M   | N   | P   | S       | T   | D                | DH     | E   | ED  | F  | G    | GA   | AA  | AB                 | AC  | BB  | HA | HD   | KK      | L    | LA |  |  |
| 80         | 2,4,6,8 | 125                 | 100 | 50  | 80  | 10   | 165 | 130 | 200 | 4-ø12   | 3.5 | 19j6             | M6X16  | 40  | 25  | 6  | 15.5 | 21.5 | 34  | 160                | 175 | 167 | 10 | 230  | M25X1.5 | 320  | 12 |  |  |
| 90S        | 2,4,6,8 | 140                 | 100 | 56  | 90  | 10   | 165 | 130 | 200 | 4-ø12   | 3.5 | 24j6             | M8X19  | 50  | 40  | 8  | 20   | 27   | 36  | 176                | 205 | 180 | 12 | 245  | M25X1.5 | 350  | 12 |  |  |
| 90L        | 2,4,6,8 | 140                 | 125 | 56  | 90  | 10   | 165 | 130 | 200 | 4-ø12   | 3.5 | 24j6             | M8X19  | 50  | 40  | 8  | 20   | 27   | 36  | 176                | 205 | 210 | 12 | 245  | M25X1.5 | 380  | 12 |  |  |
| 100L       | 2,4,6,8 | 160                 | 140 | 63  | 100 | 12   | 215 | 180 | 250 | 4-ø14.5 | 4   | 28j6             | M10X22 | 60  | 45  | 8  | 24   | 31   | 40  | 200                | 215 | 233 | 14 | 270  | M25X1.5 | 440  | 13 |  |  |
| 112M       | 2,4,6,8 | 190                 | 140 | 70  | 112 | 12   | 215 | 180 | 250 | 4-ø14.5 | 4   | 28j6             | M10X22 | 60  | 45  | 8  | 24   | 31   | 45  | 226                | 255 | 248 | 15 | 315  | M32X1.5 | 470  | 14 |  |  |
| 132S       | 2,4,6,8 | 216                 | 140 | 89  | 132 | 12   | 265 | 230 | 300 | 4-ø14.5 | 4   | 38k6             | M12X28 | 80  | 63  | 10 | 33   | 41   | 55  | 262                | 310 | 256 | 18 | 365  | M32X1.5 | 550  | 14 |  |  |
| 132M       | 2,4,6,8 | 216                 | 178 | 89  | 132 | 12   | 265 | 230 | 300 | 4-ø14.5 | 4   | 38k6             | M12X28 | 80  | 63  | 10 | 33   | 41   | 55  | 262                | 310 | 256 | 18 | 365  | M32X1.5 | 550  | 14 |  |  |
| 160M       | 2,4,6,8 | 254                 | 210 | 108 | 160 | 14.5 | 300 | 250 | 350 | 4-ø18.5 | 5   | 42k6             | M16X36 | 110 | 90  | 12 | 37   | 45   | 65  | 314                | 340 | 315 | 20 | 440  | M40X1.5 | 730  | 16 |  |  |
| 160L       | 2,4,6,8 | 254                 | 254 | 108 | 160 | 14.5 | 300 | 250 | 350 | 4-ø18.5 | 5   | 42k6             | M16X36 | 110 | 90  | 12 | 37   | 45   | 65  | 314                | 340 | 355 | 20 | 440  | M40X1.5 | 760  | 16 |  |  |
| 180M       | 2,4,6,8 | 279                 | 241 | 121 | 180 | 14.5 | 300 | 250 | 350 | 4-ø18.5 | 5   | 48k6             | M16X36 | 110 | 90  | 14 | 42.5 | 51.5 | 70  | 349                | 390 | 359 | 22 | 480  | M40X1.5 | 780  | 15 |  |  |
| 180L       | 2,4,6,8 | 279                 | 279 | 121 | 180 | 14.5 | 300 | 250 | 350 | 4-ø18.5 | 5   | 48k6             | M16X36 | 110 | 90  | 14 | 42.5 | 51.5 | 70  | 349                | 390 | 394 | 22 | 480  | M40X1.5 | 810  | 15 |  |  |
| 200L       | 2,4,6,8 | 318                 | 305 | 133 | 200 | 18.5 | 350 | 300 | 400 | 4-ø18.5 | 5   | 55m6             | M20X42 | 110 | 90  | 16 | 49   | 59   | 70  | 388                | 445 | 454 | 25 | 535  | M50X1.5 | 885  | 17 |  |  |
| 225S       | 4,6,8   | 356                 | 286 | 149 | 225 | 18.5 | 400 | 350 | 450 | 8-ø18.5 | 5   | 60m6             | M20X42 | 140 | 110 | 18 | 53   | 64   | 75  | 431                | 495 | 466 | 28 | 585  | M50X1.5 | 895  | 20 |  |  |
| 225M       | 2       | 356                 | 311 | 149 | 225 | 18.5 | 400 | 350 | 450 | 8-ø18.5 | 5   | 55m6             | M20X42 | 110 | 90  | 16 | 49   | 59   | 75  | 431                | 495 | 431 | 28 | 585  | M50X1.5 | 890  | 20 |  |  |
| 225M       | 4,6,8   | 356                 | 311 | 149 | 225 | 18.5 | 400 | 350 | 450 | 8-ø18.5 | 5   | 60m6             | M20X42 | 140 | 110 | 18 | 53   | 64   | 75  | 431                | 495 | 466 | 28 | 585  | M50X1.5 | 925  | 20 |  |  |
| 250M       | 2       | 406                 | 349 | 168 | 250 | 24   | 500 | 450 | 550 | 8-ø18.5 | 5   | 60m6             | M20X42 | 140 | 110 | 18 | 53   | 64   | 80  | 484                | 550 | 515 | 30 | 655  | M63X1.5 | 1020 | 22 |  |  |
| 250M       | 4,6,8   | 406                 | 349 | 168 | 250 | 24   | 500 | 450 | 550 | 8-ø18.5 | 5   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 80  | 484                | 550 | 515 | 30 | 655  | M63X1.5 | 1020 | 22 |  |  |
| 280S       | 2       | 457                 | 368 | 190 | 280 | 24   | 500 | 450 | 550 | 8-ø18.5 | 5   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 85  | 542                | 630 | 550 | 35 | 720  | M63X1.5 | 1060 | 22 |  |  |
| 280S       | 4,6,8   | 457                 | 368 | 190 | 280 | 24   | 500 | 450 | 550 | 8-ø18.5 | 5   | 75m6             | M20X42 | 140 | 110 | 20 | 67.5 | 79.5 | 85  | 542                | 630 | 550 | 35 | 720  | M63X1.5 | 1060 | 22 |  |  |
| 280M       | 2       | 457                 | 419 | 190 | 280 | 24   | 500 | 450 | 550 | 8-ø18.5 | 5   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 85  | 542                | 630 | 550 | 35 | 720  | M63X1.5 | 1060 | 22 |  |  |
| 280M       | 4,6,8   | 457                 | 419 | 190 | 280 | 24   | 500 | 450 | 550 | 8-ø18.5 | 5   | 75m6             | M20X42 | 140 | 110 | 20 | 67.5 | 79.5 | 85  | 542                | 630 | 550 | 35 | 720  | M63X1.5 | 1060 | 22 |  |  |
| 315S       | 2       | 508                 | 406 | 216 | 315 | 28   | 600 | 550 | 660 | 8-ø24   | 6   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 120 | 628                | 645 | 680 | 45 | 870  | M63X1.5 | 1300 | 22 |  |  |
| 315S       | 4,6,8   | 508                 | 406 | 216 | 315 | 28   | 600 | 550 | 660 | 8-ø24   | 6   | 80m6             | M20X42 | 170 | 140 | 22 | 71   | 85   | 120 | 628                | 645 | 680 | 45 | 870  | M63X1.5 | 1360 | 22 |  |  |
| 315M       | 2       | 508                 | 457 | 216 | 315 | 28   | 600 | 550 | 660 | 8-ø24   | 6   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 120 | 628                | 645 | 680 | 45 | 870  | M63X1.5 | 1400 | 22 |  |  |
| 315M       | 4,6,8   | 508                 | 457 | 216 | 315 | 28   | 600 | 550 | 660 | 8-ø24   | 6   | 80m6             | M20X42 | 170 | 140 | 22 | 71   | 85   | 120 | 628                | 645 | 680 | 45 | 870  | M63X1.5 | 1460 | 22 |  |  |
| 315L       | 2       | 508                 | 508 | 216 | 315 | 28   | 600 | 550 | 660 | 8-ø24   | 6   | 65m6             | M20X42 | 140 | 110 | 18 | 58   | 69   | 120 | 628                | 645 | 680 | 45 | 870  | M63X1.5 | 1400 | 22 |  |  |
| 315L       | 4,6,8   | 508                 | 508 | 216 | 315 | 28   | 600 | 550 | 660 | 8-ø24   | 6   | 80m6             | M20X42 | 170 | 140 | 22 | 71   | 85   | 120 | 628                | 645 | 680 | 45 | 870  | M63X1.5 | 1460 | 22 |  |  |
| 355M       | 2       | 610                 | 560 | 254 | 355 | 28   | 740 | 680 | 800 | 8-ø24   | 6   | 75m6             | M24X50 | 140 | 110 | 20 | 67.5 | 79.5 | 150 | 766                | 740 | 985 | 52 | 1030 | M63X1.5 | 1620 | 25 |  |  |
| 355M       | 4,6,8   | 610                 | 560 | 254 | 355 | 28   | 740 | 680 | 800 | 8-ø24   | 6   | 95m6             | M24X50 | 170 | 140 | 25 | 86   | 100  | 150 | 766                | 740 | 985 | 52 | 1030 | M63X1.5 | 1660 | 25 |  |  |
| 355L       | 2       | 610                 | 630 | 254 | 355 | 28   | 740 | 680 | 800 | 8-ø24   | 6   | 75m6             | M24X50 | 140 | 110 | 20 | 67.5 | 79.5 | 150 | 766                | 740 | 985 | 52 | 1030 | M63X1.5 | 1690 | 25 |  |  |
| 355L       | 4,6,8   | 610                 | 630 | 254 | 355 | 28   | 740 | 680 | 800 | 8-ø24   | 6   | 95m6             | M24X50 | 170 | 140 | 25 | 86   | 100  | 150 | 766                | 740 | 985 | 52 | 1030 | M63X1.5 | 1720 | 25 |  |  |
| 355LB      | 2       | 610                 | 630 | 254 | 355 | 28   | 740 | 680 | 800 | 8-ø24   | 6   | 75m6             | M24X50 | 140 | 110 | 20 | 67.5 | 79.5 | 150 | 766                | 740 | 985 | 52 | 1030 | M63X1.5 | 1690 | 25 |  |  |
| 355LB      | 4,6,8   | 610                 | 630 | 254 | 355 | 28   | 740 | 680 | 800 | 8-ø24   | 6   | 95m6             | M24X50 | 170 | 140 | 25 | 86   | 100  | 150 | 766                | 740 | 985 | 52 | 1030 | M63X1.5 | 1720 | 25 |  |  |

All technical details are subject to change without any prior notice  
All dimensions in millimetres (mm).



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