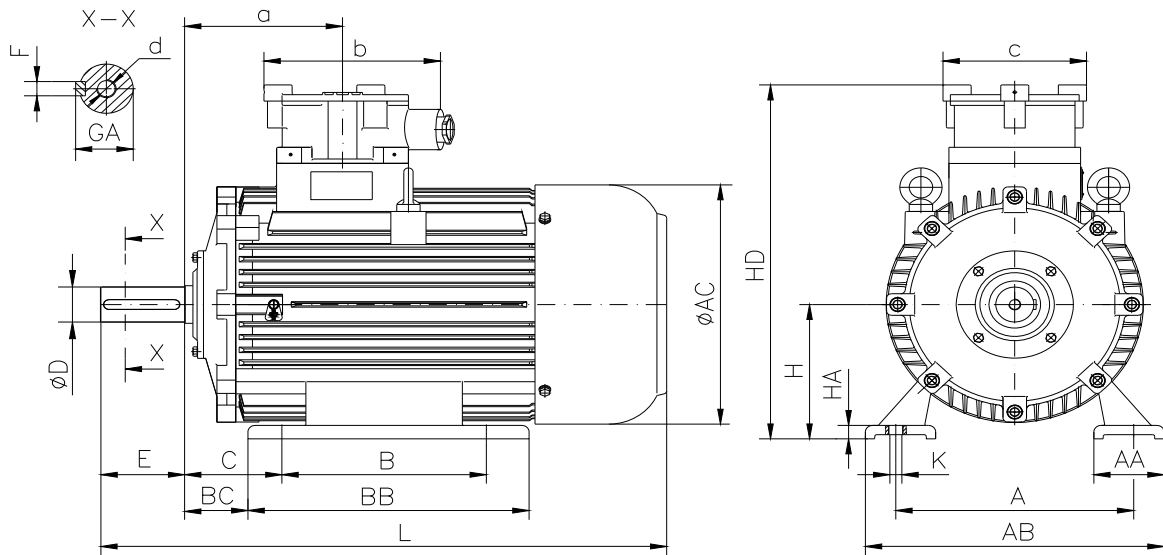


**DATA SHEET**

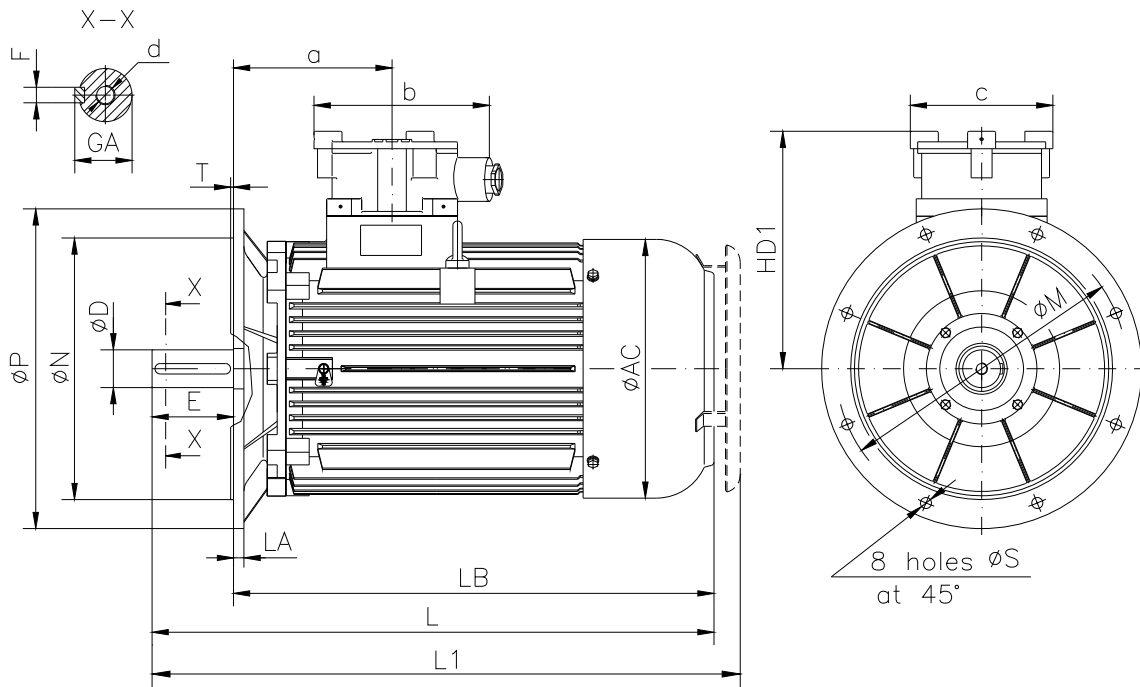
|                                    |   |
|------------------------------------|---|
| ○ Type.....                        | ASA 280M-4  |
| ○ Reference standard.....          | IEC 60034-1<br>EN 60079-0<br>EN 60079-1<br>EN 60079-7               |
| ○ Rated output.....                | 90 kW   |
| ○ Rated stator voltage.....        | 400 V   |
| ○ Rated frequency.....             | 50 Hz   |
| ○ Stator current at 100% load..... | 155 A   |
| ○ Number of poles.....             | 4   |
| ○ Rated speed.....                 | 1480 rev/min  |
| ○ Efficiency at 100% load.....     | 94.1%   |
| ○ Power factor at 100% load.....   | 0.89  |
| ○ Break-down torque.....           | 2.0 x Mn  |
| ○ Locked rotor torque.....         | 1.9 x Mn  |
| ○ Locked rotor current.....        | 7.0 x In  |
| ○ Rotor inertia.....               | 1.061 kgm <sup>2</sup>  |
| ○ Insulation class.....            | F   |
| ○ Direction of rotation.....       | Both(CW&CCW)  |
| ○ Protection degree.....           | ≥IP55   |
| ○ Mounting.....                    | IM  |
| ○ Cooling method.....              | IC 411  |
| ○ Max. ambient temperature.....    | +40°C   |
| ○ Altitude.....                    | 1000m   |
| ○ Bearing type.....                | 6316 drive end<br>6314 non drive end                                |
| ○ Lubrication.....                 | regreasable bearings with UNIREX N2,<br>Shell Alvania R3, SKF LGTH3 |
| ○ Relubricating interval.....      | 10700 hrs DE<br>12100 hrs NDE                                       |
| ○ Correcting interval.....         | 3700 hrs DE<br>4200 hrs NDE   |
| ○ Grease quantity .....            | 33g/bearing DE<br>26 g/bearing NDE                                  |
| ○ Thermal winding protection.....  | 3xPTC   |
| ○ Weight.....                      | 690 Kg  |
| ○ Outline drawing.....             | Page 2  |
| ○ Vibration level : .....          | A(acc.IEC 60034-14)   |
| ○ Noise level .....                | acc.IEC 60034-9   |
| ○ Cable entries.....               | 2xM63x1.5   |
| ○ Additional cable entries.....    | 1xM20x1.5   |
| ○ Climate execution .....          | N   |

**The overall and mounting dimensions  
IM 1001**



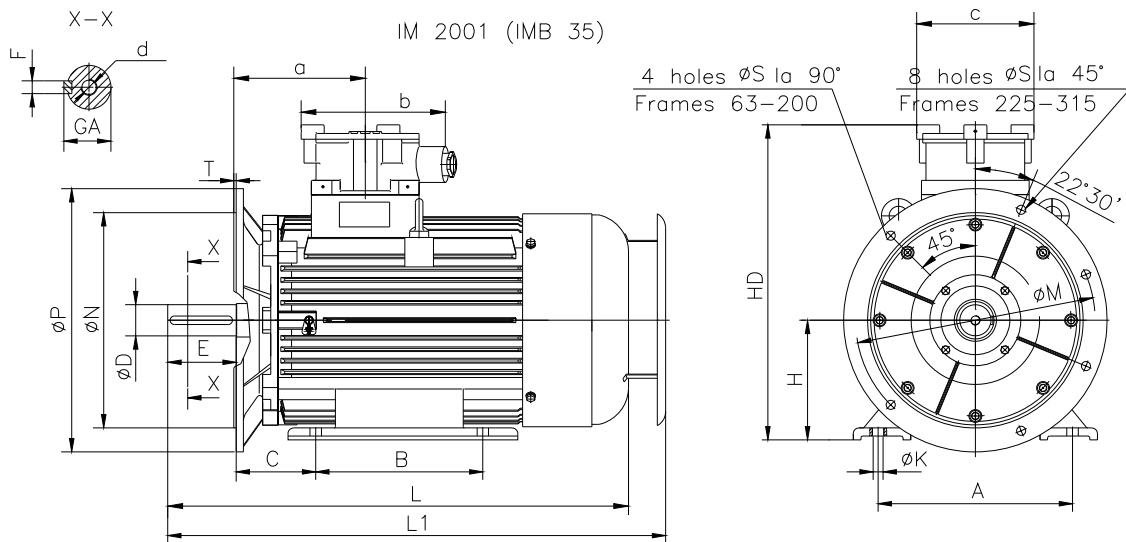
| Frame size | Dimensions (mm) |     |     |                  |    |     |     |     |     |    |                 |     |      |      |     |     |     |      |     |     |     |
|------------|-----------------|-----|-----|------------------|----|-----|-----|-----|-----|----|-----------------|-----|------|------|-----|-----|-----|------|-----|-----|-----|
|            | Foot mounting   |     |     |                  |    |     |     |     |     |    | Shaft extension |     |      |      |     |     | HD  | AC   | L   | a   | b   |
| 280 M-4    | A               | B   | C   | H <sub>0.5</sub> | K  | AA  | AB  | BB  | BC  | HA | D               | E   | F    | GA   | d   |     |     |      |     |     |     |
|            | 457             | 419 | 190 | 280              | 24 | 120 | 550 | 500 | 147 | 30 | 75m6            | 140 | 20h9 | 79.5 | M20 | 758 | 500 | 1085 | 280 | 340 | 300 |

**The overall and mounting dimensions  
IM 3001; IM 3011**



| Frame size | Dimensions (mm)      |     |     |      |   |                 |     |      |      |     |     |     |    |     |      |      |     |     |     |
|------------|----------------------|-----|-----|------|---|-----------------|-----|------|------|-----|-----|-----|----|-----|------|------|-----|-----|-----|
|            | Flange mounting (B5) |     |     |      |   | Shaft extension |     |      |      |     | HD1 | AC  | LA | LB  | L    | L1   | a   | b   | c   |
| N          | M                    | P   | S   | T    | D | E               | F   | GA   | d    |     |     |     |    |     |      |      |     |     |     |
| 280 M-4    | 450j6                | 500 | 550 | 18.5 | 5 | 75m6            | 140 | 20h9 | 79.5 | M20 | 478 | 500 | 20 | 942 | 1085 | 1190 | 280 | 340 | 300 |

**The overall and mounting dimensions  
IM 2001**



| Frame size | Dimensions (mm) |     |     |                  |    |                 |     |     |      |   |                 |     |      |      |     |     |      |      |     |     |     |
|------------|-----------------|-----|-----|------------------|----|-----------------|-----|-----|------|---|-----------------|-----|------|------|-----|-----|------|------|-----|-----|-----|
|            | Foot mounting   |     |     |                  |    | Flange mounting |     |     |      |   | Shaft extension |     |      |      |     | HD  | L    | L1   | a   | b   | c   |
| 280 M-4    | A               | B   | C   | H <sub>0.5</sub> | K  | N               | M   | P   | S    | T | D               | E   | F    | GA   | d   |     |      |      |     |     |     |
|            | 457             | 419 | 190 | 280              | 24 | 450j6           | 500 | 550 | 18.5 | 5 | 75m6            | 140 | 20h9 | 79.5 | M20 | 758 | 1085 | 1190 | 280 | 340 | 300 |