

## Technical data sheet

| General data       |                            |
|--------------------|----------------------------|
| Frame size         | 180                        |
| Housing material   | Casting iron               |
| Install model      | According to the standard  |
| Type of feet       | Fixed feet                 |
| Net weight         | 175 kg                     |
| Insulation class   | F                          |
| Protection degree  | IP 55                      |
| Thermal protection | 3x PTC 150°C               |
| Rotation direction | Clockwise                  |
| Service duty       | S4-80% 30c/h               |
| Vibration level    | A                          |
| Balance            | Half-key balanced          |
| Cable glands       | 2x M36                     |
| Cooling            | IC 411                     |
| Painting color     | RAL 5010                   |
| Regulations        | IEC / DIN / ISO / VDE / EN |
| Standard           | IEC 60034                  |

| Environmental conditions |                        |
|--------------------------|------------------------|
| Ambient temperature      | From -20°C to +40°C    |
| Maximum altitude         | 1000 m above sea level |

| Electrical data   |                          |                                                      |
|-------------------|--------------------------|------------------------------------------------------|
| Output            | 18.5                     | kW                                                   |
| Frequency         | 50                       | Hz                                                   |
| Voltage (±5%)     | 400<br>690<br>480<br>828 | V Δ @ 50Hz<br>V Y @ 50Hz<br>V Δ @ 60Hz<br>V Y @ 60Hz |
| Rotation speed    | 1470<br>1764             | RPM @ 50Hz<br>RPM @ 60Hz                             |
| Rated current     | 33.70<br>19.52           | A (In) @ Δ 50Hz<br>A (In) @ Y 50Hz                   |
| Starting current  | 7.7                      | ×In                                                  |
| Rated torque      | 120.20                   | Nm (Mn)                                              |
| Starting torque   | 2.4                      | ×Mn                                                  |
| Breakdown torque  | 2.7                      | ×Mn                                                  |
| Efficiency        | 92.2<br>92.3<br>92.0     | IE2<br>@ 100% load<br>@ 75% load<br>@ 50% load       |
| Power factor cosφ | 0.86                     | @ 100% load                                          |

| Mechanical data                     |                    |                   |
|-------------------------------------|--------------------|-------------------|
| Bearings brand                      | SKF Explorer       |                   |
| Bearings type                       | 6311 C3<br>6311 C3 | (DE)<br>(NDE)     |
| Allowed radial load                 | 3373 N             |                   |
| Allowed axial load                  | 30000 N            |                   |
| Lubrication interval of NDE bearing | 18500 h            |                   |
| Lubrication interval of DE bearing  | 18500 h            |                   |
| Moment of inertia                   | 0.183000           | Kg*m <sup>2</sup> |
| Noise level                         | 76                 | dB(A)             |