



# Felandia

| General data       |                                |                          |
|--------------------|--------------------------------|--------------------------|
| Frame size         | 90                             |                          |
| Housing material   | Aluminum                       |                          |
| Install model      | According to the standard      |                          |
| Type of feet       | Removable feet                 |                          |
| Net weight         | 18.5 kg                        |                          |
| Insulation class   | F<br>H                         | (Standard)<br>(Optional) |
| Protection degree  | IP 55<br>IP 56                 | (Standard)<br>(Optional) |
| Thermal protection | Without<br>Customizable        | (Standard)<br>(Optional) |
| Rotation direction | Clockwise<br>Counter clockwise | (Standard)<br>(Optional) |
| Service duty       | S1                             |                          |
| Vibration level    | A                              |                          |
| Balance            | Half-key balanced              |                          |
| Cable glands       | 1 - M20 × 1.5                  |                          |
| Cooling            | IC 411                         |                          |
| Painting color     | RAL 7024<br>Customizable       | (Standard)<br>(Optional) |
| 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            | 3                        | kW                                                   |
| Frequency         | 50                       | Hz                                                   |
| Voltage (±5%)     | 230<br>400<br>276<br>480 | V Δ @ 50Hz<br>V Y @ 50Hz<br>V Δ @ 60Hz<br>V Y @ 60Hz |
| Rotation speed    | 2910<br>3500             | RPM @ 50Hz<br>RPM @ 60Hz                             |
| Rated current     | 10.8<br>6.21             | A (In) @ Δ 50Hz<br>A (In) @ Y 50Hz                   |
| Starting current  | 9.6                      | ×In                                                  |
| Rated torque      | 9.85                     | Nm (Mn)                                              |
| Starting torque   | 4                        | ×Mn                                                  |
| Breakdown torque  | 4.1                      | ×Mn                                                  |
| Efficiency        | 87.1<br>87.1<br>84.2     | IE3<br>@ 100% load<br>@ 75% load<br>@ 50% load       |
| Power factor cosφ | 0.8                      | @ 100% load                                          |

| Mechanical data                     |                            |                          |
|-------------------------------------|----------------------------|--------------------------|
| Bearings brand                      | C&U<br>Customizable        | (Standard)<br>(Optional) |
| Bearings type                       | 6205 2RZ C3<br>6205 2RZ C3 | (DE)<br>(NDE)            |
| Lifetime of bearings                | 20000 hours                |                          |
| Allowed radial load                 | 654.04 N                   |                          |
| Allowed axial load                  | 489.97 N                   |                          |
| Grease type                         |                            |                          |
| Lubrication interval of NDE bearing | h                          |                          |
| Lubrication interval of DE bearing  | h                          |                          |
| Moment of inertia                   | 0.003405959                | Kg*m <sup>2</sup>        |
| Noise level                         | 74                         | dB(A)                    |