



# Felandia

| General data       |  |
|--------------------|--|
| Frame size         | 160  |
| Housing material   | Casting iron   |
| Install model      | According to the standard                                    |
| Type of feet       | Removable feet<br>(Standard) <i>Fixed feet</i><br>(Optional) |
| Net weight         | 127 kg   |
| Insulation class   | F (Standard)<br>H (Optional)                                 |
| Protection degree  | IP 55 (Standard)<br>IP 56 (Optional)                         |
| Thermal protection | Without (Standard)<br><i>Customizable</i> (Optional)         |
| Rotation direction | Clockwise (Standard)<br><i>Counter clockwise</i> (Optional)  |
| Service duty       | S1   |
| Vibration level    | A  |
| Balance            | Half-key balanced  |
| Cable glands       | 2 - M32× 1.5   |
| Cooling            | IC 411   |
| Painting color     | RAL 7024 (Standard)<br><i>Customizable</i> (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            | 11    | kW              |
| Frequency         | 50    | Hz              |
| Voltage (±5%)     | 400   | V Δ @ 50Hz      |
|                   | 690   | V Y @ 50Hz      |
|                   | 480   | V Δ @ 60Hz      |
|                   | 828   | V Y @ 60Hz      |
| Rotation speed    | 1450  | RPM @ 50Hz      |
|                   | 1740  | RPM @ 60Hz      |
| Rated current     | 20.68 | A (In) @ Δ 50Hz |
|                   | 11.94 | A (In) @ Y 50Hz |
| Starting current  | 10    | ×In             |
| Rated torque      | 72.45 | Nm (Mn)         |
| Starting torque   | 2.5   | ×Mn             |
| Breakdown torque  | 3     | ×Mn             |
| Efficiency        | 91.4  | IE3 @ 100% load |
|                   | 92.2  | @ 75% load      |
|                   | 91.7  | @ 50% load      |
| Power factor cosφ | 0.84  | @ 100% load     |

| Mechanical data                     |  |                   |
|-------------------------------------|--|-------------------|
| Bearings brand                      | C&U (Standard)<br><i>Customizable</i> (Optional) |                   |
| Bearings type                       | 6309 C3  | (DE)              |
|                                     | 6309 C3  | (NDE)             |
| Lifetime of bearings                |  | - hours           |
| Allowed radial load                 |  | 1769 N            |
| Allowed axial load                  |  | 21200 N           |
| Grease type                         | polyurea-based grease                            |                   |
| Lubrication interval of NDE bearing |  | 21500 h           |
| Lubrication interval of DE bearing  |  | 21500 h           |
| Moment of inertia                   | 0.103550   | Kg*m <sup>2</sup> |
| Noise level                         | 75   | dB(A)             |