

**ECOL MOTOR**
**MODEL D1S 200L-4**
**TECHNICAL DATA SHEET**

| General Data       |   |
|--------------------|---|
| Frame size         | 200   |
| Housing material   | Casting iron  |
| Install model      | According to the standard                             |
| Type of feet       | Removable feet<br>(Standard) Fixed feet<br>(Optional) |
| Net weight         | 216.5 kg  |
| Insulation class   | F (Standard)  |
|                    | H (Optional)  |
| Protection degree  | IP 55 (Standard)                                      |
|                    | IP 56 (Optional)                                      |
| Thermal protection | Without (Standard)                                    |
|                    | Customizable (Optional)                               |
| Service duty       | S1  |
| Vibration level    | A   |
| Balance            | Half-key balanced                                     |
| Cable glands       | 2 - M40x 1.5  |
| Cooling            | IC 411  |
| Painting color     | RAL 7024 (Standard)                                   |
|                    | Customizable (Optional)                               |
| Regulations        | IEC / DIN / ISO / VDE /<br>EN                         |
| Standard           | IEC 60034   |

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

| Electrical Data   |        |                 |
|-------------------|--------|-----------------|
| Output            | 30     | kW              |
| Frequency         | 50     | Hz              |
| Voltage (±5%)     | 400    | V Δ @ 50Hz      |
|                   | 690    | V Y @ 50Hz      |
|                   | 480    | V Δ @ 60Hz      |
|                   | 828    | V Y @ 60Hz      |
| Rotation speed    | 1480   | RPM @ 50Hz      |
|                   | 1776   | RPM @ 60Hz      |
| Rated current     | 53.64  | A (In) @ Δ 50Hz |
|                   | 30.97  | A (In) @ Y 50Hz |
| Starting current  | 8      | xIn             |
| Rated torque      | 196.23 | Nm (Mn)         |
| Starting torque   | 2.2    | xMn             |
| Breakdown torque  | 2.6    | xMn             |
|                   |        | IE1             |
| Efficiency        | 90.7   | @ 100% load     |
|                   | 92.3   | @ 75% load      |
|                   | 91.6   | @ 50% load      |
| Power factor cosφ | 0.89   | @ 100% load     |

| Mechanical Data                     |                       |                   |
|-------------------------------------|-----------------------|-------------------|
| Bearings brand                      | C&U                   | (Standard)        |
|                                     | Customizable          | (Optional)        |
| Bearings type                       | 6312 C3               | (DE)              |
|                                     | 6312 C3               | (NDE)             |
| Lifetime of bearings                |                       | - hours           |
| Allowed radial load                 |                       | 4712 N            |
| Allowed axial load                  |                       | 34700 N           |
| Grease type                         | polyurea-based grease |                   |
| Lubrication interval of NDE bearing |                       | 17500 h           |
| Lubrication interval of DE bearing  |                       | 17500 h           |
| Moment of inertia                   | 0.265940              | Kg*m <sup>2</sup> |
| Noise level                         | 79                    | dB(A)             |

