KEM MOTOR

# 3L280M-2

## Technical data sheet

| General data | |
|---|---|
| Frame size | 280M |
| Housing material | Casting iron |
| Install model | According to the standard |
| Type of feet | Fixed feet |
| Net weight | 652 |
| Insulation class | F |
| Protection degree | IP 55 |
| Thermal protection | 3x PTC 150°C |
| Rotation direction | Clockwise |
| Service duty | S1 |
| Vibration level | A |
| Balance | Half-key balanced |
| Cable glands | 2×M63 |
| 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 altitute | 1000 m above sea level |

| Electrical data | | |
|---|---|---|
| Output | 90 | kW |
| Frequency | 50 | Hz |
| Voltage (±5%) | 400 | V Δ @ 50Hz |
| | 690 | V Y @ 50Hz |
| Rotation speed | 2975 | RPM @ 50Hz |
| | 3570 | RPM @ 60Hz |
| Rated current | 151.9 | A (In) @ Δ 50Hz |
| | 87.7 | A (In) @ Y 50Hz |
| Starting current | 7.1 | ×In |
| Rated torque | 288.9 | Nm (Mn) |
| Starting torque | 1.8 | ×Mn |
| Breakdown torque | 2.3 | ×Mn |
| Efficiency | IE3 | |
| | 95.00% | @ 100% load |
| | 94.60% | @ 75% load |
| | 94.30% | @ 50% load |
| Power factor cosφ | 0.90 | @ 100% load |
| Bearings brand | SKF/NSK/FAG Explorer | |
| Bearings type | 6314 C3 | (DE) |
| | 6314 C3 | (NDE) |

| Mechanical data | | |
|---|---|---|
| Allowed radial load | | - |
| Allowed axial load | | - |
| Lubrication interval of NDE bearing | | 2000 |
| Lubrication interval of DE bearing | | 2000 |
| Moment of inertia | 1.1568 | Kg*m² |
| Noise level | 91 | dB(A) |