

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

Motor type: 7CV3280A SIMOTICS SD - 280S - IM B3 - 2 p

| | | |
|------------------|-----------------|-----------|
| Client order no. | Item-No. | Offer no. |
| Order no. | Consignment no. | Project |
| Remarks | | |

Electrical data

Safe Area

| U | Δ / Y | f | P | P | I | n | M | M | η ³⁾ | | | cosφ ³⁾ | | | I _A /I _N | M _A /M _N | M _k /M _N | IE-CL | |
|--|-------|---------|---------|------|--------|---------|---------|-------|------------------------|--|------|--------------------|------|------|--------------------------------|--------------------------------|--------------------------------|-------|--|
| [V]±10% | | [Hz]±5% | [kW] | [hp] | [A] | [1/min] | [kgf.m] | [Nm] | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | | | | | |
| Motordaten / Motor Data | | | | | | | | | | | | | | | | | | | |
| 415 | Δ | 50 | 75.00 | -/- | 127.00 | 2972 | 25.0 | 241.0 | 94.8 | 95.0 | 94.5 | 0.87 | 0.83 | 0.76 | 6.5 | 2.2 | 2.8 | IE3 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| IM B3 / IM 1001 | | | FS 280S | | 535 kg | | SF:1 | | IS 12615 / IEC 60034-1 | | | - | | | | | | | |
| Environmental conditions : -20 °C - +50 °C / 1,000 m | | | | | | | | | | Locked rotor time (hot / cold) : 11 s 30 s | | | | | | | | | |


Mechanical data

| | | | | |
|---|--|----------|-----------------------------------|---|
| Sound pressure level 50Hz 60Hz | 80 dB(A) | 85 dB(A) | External earthing terminal | Yes (standard) |
| Moment of inertia Rotor GD ² | 0.7717 kg m ² 3.0869 kgf.m ² | | Vibration severity grade | A (Standard) |
| Bearing DE NDE | 6315 C3 | 6315 C3 | Insulation | 155(F) utilized to 130(B) |
| bearing lifetime | | | Duty type | S1 |
| L _{10mh} F _{Rad max} according catalogue 50 60Hz ¹⁾ | 20,000 h | 16,000 h | Direction of rotation | Bidirectional |
| L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾ | 50,000 h | 40,000 h | Frame material | Cast iron |
| Type of bearing | Locating (fixed) bearing, NDE | | Forced ventilation motor details | - / - |
| Relubrication interval/quantity DE NDE | 25 g 25 g 4,000 h | | Net weight of the motor (IM B3) | 535 kg |
| Type of construction | IM B3 / IM 1001 | | Rotor weight | 121 kg |
| Degree of protection | IP55 | | Data of anti condensation heating | -/- V, -/- W |
| Lubricants | Esso Unirex N3 | | Coating (paint finish) | Standard paint finish |
| Regreasing device | Yes (standard) | | Color, paint shade | RAL7030 |
| Grease nipple | M10x1 DIN 71412 A | | Motor protection | (A) without |
| Condensate drainage holes | Yes | | Method of cooling | IC411 - Self ventilated, surface cooled |

Terminal box

| | | | |
|---------------------------|-----------|--------------------------------|-------------------|
| Terminal box position | Top | Cable diameter from ... to ... | 34.0 mm - 42.0 mm |
| Material of terminal box | Cast iron | Cable entry | 2xM63x1.5 |
| Type of terminal box | TB1 N01 | Cable gland | 2 Plugs |
| Contact screw thread | M10 | | |
| Max. cross-sectional area | 120 mm² | | |

| | | | |
|---|--|--|--|
| Notes: | | | |
| I _A /I _N = locked rotor current / current nominal | | | |
| M _k /M _N = locked rotor torque / torque nominal | | | |
| M _k /M _N = break down torque / nominal torque | | | |
| 3) Efficiency value is valid only for sinusoidal line supply operation. | | | |
| 1) L _{10mh} according to DIN ISO 281 10/2010 | | | |

| | | | | | | | |
|----------------------------------|---|-------------------|-------------|--|-----------------------------|---|-------------|
| Responsible department IN LVM | Technical reference | Created by SPC | Approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. | | Link documents | |
| SIEMENS | Document type Datasheet | | | Document status Released | |  | |
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