

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



Motor type : 1CV3310C

SIMOTICS SD - 315 S - IM B3 - 6p

| | | |
|------------------|-----------------|-----------|
| 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 | η ³⁾ | | | cosφ ³⁾ | | | I _A /I _N | M _A /M _N | M _K /M _N | IE-CL | |
|--|-------|------|----------|------|--------|---------|-------|-----------------|--|------|--------------------|------|------------------------|--------------------------------|--------------------------------|--------------------------------|-------|--|
| [V] | | [Hz] | [kW] | [hp] | [A] | [1/min] | [Nm] | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | I _I /I _N | T _I /T _N | T _B /T _N | | |
| 460 | Δ | 60 | 90.00 | -/- | 142.00 | 1190 | 720.0 | 95.0 | 95.3 | 94.8 | 0.84 | 0.81 | 0.72 | 7.2 | 2.6 | 2.9 | IE3 | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| IM B3 / IM 1001 | | | FS 315 S | | 750 kg | | IP55 | | | | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | |
| Environmental conditions : -20 °C - + °C / 1,000 m | | | | | | | | | Locked rotor time (hot / cold) : 32.4 s 49 s | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Mechanical data

| | | | | |
|---|---------------------------------|---------------------------------|----------------------------|---|
| Sound level (SPL / SWL) at 50Hz 60Hz | 72.9 / 87.3 dB(A) ²⁾ | 76.7 / 91.1 dB(A) ²⁾ | External earthing terminal | Yes (standard) |
| Moment of inertia | 2.6000 kg m ² | | Vibration severity grade | A |
| Bearing DE NDE | 6319 C3 | 6319 C3 | Insulation | 180(H) to 180(H) |
| bearing lifetime | | | Duty type | S1 |
| L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation | 40000 h | 32000 h | Direction of rotation | bidirectional |
| Relubrication interval/quantity DE NDE | 40 g | 40 g | Frame material | cast iron |
| Lubricants | Unirex N3 | | Coating (paint finish) | Standard paint finish C2 |
| Regreasing device | Yes (standard) | | Color, paint shade | RAL7030 |
| Grease nipple | M10x1 DIN 3404 A | | Motor protection | (P) 1 resistance thermometer PT100 in stator winding - 2 wire (2 terminals) |
| Type of bearing | Locating bearing DE | | Method of cooling | IC416 - separately ventilated, surface cooled |
| Condensate drainage holes | Yes (standard) | | | |

Terminal box


| | | | |
|--------------------------|-----------|--------------------------------|-----------------------|
| Terminal box position | top | Max. cross-sectional area | 240.0 mm ² |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 38.0 mm - 45.0 mm |
| Type of terminal box | TB1 Q01 | Cable entry | 2xM63x1,5-2xM20x1,5 |
| Contact screw thread | M12 | Cable gland | 4 plugs |

Notes:

I_A/I_N = locked rotor current / current nominal 1) L10mh according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411

M_K/M_N = locked rotor torque / torque nominal 2) at rated power / at full load

M_B/M_N = break down torque / nominal torque

| | | | | | | | |
|--|---|----------------------|-------------|--|------------------|----------|------|
| responsible dep. | technical reference | created by | approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. | | | |
| DI MC LVM | | DT Configurator | | | | | |
|  | document type | datasheet | | document status | | customer | |
| | | | | released | | | |
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Special design

| | | | |
|-----|--|-----|---|
| B02 | Acceptance test certificate 3.1 acc. to EN 10204 | M1F | 460 VD for 60 Hz, 60-Hz power |
| B91 | Documentation Package "Advanced" | N11 | Temperature class 180(H), and coolant temperature max. 60°C |
| F70 | Mounting of separately driven fan | R11 | Terminal box rotated through 90°, cable entry from NDE |
| H02 | Vibration-proof version | R62 | Cast iron auxiliary terminal box (small) |
| L51 | Bearing insulation NDE | Y76 | Mounting of HOG 10 DN 1024 I + centrifugal switch, (speed rpm), terminal box protection against dust |

Notes:

| | | | | | | | | |
|-------------------------------|---|-------------------------------|-------------|-----------------------------|--|----------------|-------------|--|
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