

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



Motor type : 1CV3314A

SIMOTICS SD - 315 L - IM B3 - 2p

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

Remarks

Electrical data

Safe Area

| U [V] | Δ / Y | f [Hz] | P [kW] | P [hp] | I [A] | n [1/min] | M [Nm] | η ³⁾ | | | $\cos\phi$ ³⁾ | | | I_A/I_N I_i/I_N | M_A/M_N T_i/T_N | M_k/M_N T_B/T_N | IE-CL |
|----------|--------------|-----------|-----------|-----------|----------|--------------|-----------|----------------------|------|------|--------------------------|------|------|------------------------|------------------------|------------------------|-------|
| | | | | | | | | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | | | | |
| 400 | Δ | 50 | 160.00 | -/- | 265.00 | 2982 | 510.0 | 95.6 | 95.7 | 95.2 | 0.92 | 0.91 | 0.86 | 7.8 | 2.8 | 3.3 | IE3 |
| 690 | Y | 50 | 160.00 | -/- | 152.00 | 2982 | 510.0 | 95.6 | 95.7 | 95.2 | 0.92 | 0.91 | 0.86 | 7.8 | 2.8 | 3.3 | IE3 |
| 460 | Δ | 60 | 180.00 | -/- | 255.00 | 3582 | 480.0 | 95.4 | 95.1 | 94.6 | 0.92 | 0.91 | 0.86 | 7.7 | 2.8 | 3.1 | IE2 |
| 460 | Δ | 60 | 160.00 | -/- | 230.00 | 3588 | 425.0 | 95.4 | 95.1 | 93.9 | 0.91 | 0.89 | 0.83 | 8.8 | 3.2 | 3.5 | IE3 |

IM B3 / IM 1001 FS 315 L 980 kg IP55 IEC/EN 60034 IEC, DIN, ISO, VDE, EN
 Environmental conditions : -20 °C - +40 °C / 1,000 m Locked rotor time (hot / cold) : 38.2 s | 63 s

Mechanical data

| | | | | |
|---|---------------------------------|---------------------------------|----------------------------|--|
| Sound level (SPL / SWL) at 50Hz 60Hz | 77.0 / 91.0 dB(A) ²⁾ | 82.0 / 96.0 dB(A) ²⁾ | External earthing terminal | Yes (standard) |
| Moment of inertia | 1.9000 kg m ² | | Vibration severity grade | A |
| Bearing DE NDE | 6316 C3 | 6316 C3 | Insulation | 155(F) to 130(B) |
| bearing lifetime | | | Duty type | S1 |
| L _{10mh} F _{rad min} for coupling operation 50 60Hz ¹⁾ | 40000 h | 32000 h | Direction of rotation | bidirectional |
| Relubrication interval/quantity DE NDE | 30 g 30 g 3000 h | | 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 | (B) 3 PTC thermistors - for tripping (2 terminals) |
| Type of bearing | Locating bearing NDE | | Method of cooling | IC411 - self 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
 M_k/M_N = locked rotor torque / torque nominal
 M_k/M_N = break down torque / nominal torque
 1) L10mh according to DIN ISO 281 10/2010
 2) at rated power / at full load
 3) Value is valid only for DOL operation with motor design IC411

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

| | | | |
|-----|---------------------------------|-----|--|
| L05 | Second standard shaft extension | Y80 | Supplementary rating plate with different data |
|-----|---------------------------------|-----|--|

Notes:

| | | | | |
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