

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



Motor type : 1AV1063B

SIMOTICS GP - 63 M - IM B5 - 4p

| | | |
|------------------|-----------------|-----------|
| 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_f/I_N | M_A/M_N T_f/T_N | M_R/M_N T_B/T_N | IE-CL |
|--|--------------|-----------|-----------|-----------|----------|--------------|-----------|----------------------|--|------------------------|--------------------------|------|------|------------------------|------------------------|------------------------|-------|
| | | | | | | | | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | | | | |
| DOL duty (S6 60%) - 155(F) to 130(B) | | | | | | | | | | | | | | | | | |
| 230 | Δ | 50 | 0.21 | -/- | 1.23 | 1360 | 1.3 | 57.0 | 55.1 | 47.8 | 0.71 | 0.62 | 0.49 | 2.8 | 1.9 | 2.1 | IE1 |
| 400 | Y | 50 | 0.21 | -/- | 0.71 | 1360 | 1.3 | 57.0 | 55.1 | 47.8 | 0.71 | 0.62 | 0.49 | 2.8 | 1.9 | 2.1 | IE1 |
| 460 | Y | 60 | 0.24 | -/- | 0.65 | 1670 | 1.2 | 66.0 | 63.7 | 56.5 | 0.68 | 0.58 | 0.47 | 3.2 | 2.1 | 2.3 | IE1 |
| IM B5 / IM 3001 | | FS 63 M | | IP55 | | UKCA | | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | |
| Environmental conditions : -20 °C - +40 °C / 1,000 m | | | | | | | | | Locked rotor time (hot / cold) : 24 s 37.8 s | | | | | | | | |

Mechanical data

| | | | | |
|--|--------------------------|-------------------------|---------------------------------|---|
| Sound level (SPL / SWL) at 50Hz/60Hz | / dB(A) ²⁾³⁾ | / dB(A) ²⁾³⁾ | Vibration severity grade | A |
| Moment of inertia | 0.0004 kg m ² | | Thermal class | F |
| Bearing DE NDE | 6201 2Z C3 | 6201 2Z C3 | Duty type | S6 60% |
| bearing lifetime | | | Direction of rotation | bidirectional |
| $L_{10mh} F_{Rad, min}$ for coupling operation 50 60Hz ¹⁾ | 40000 h | 32000 h | Frame material | aluminum |
| Regreasing device | Without | | Net weight of the motor (IM B3) | kg |
| Grease nipple | -/- | | Coating (paint finish) | Standard paint finish C2 |
| Type of bearing | Preloaded bearing DE | | Color, paint shade | RAL7030 |
| Condensate drainage holes | Without | | Motor protection | (A) without (Standard) |
| External earthing terminal | Without | | Method of cooling | IC411 - self ventilated, surface cooled |

Terminal box

| | | | |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position | top | Max. cross-sectional area | 1.5 mm ² |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 9 mm - 17 mm |
| Type of terminal box | TB1 B00 | Cable entry | 1xM25x1,5 |
| Contact screw thread | M4 | Cable gland | 1 plug |

Notes:
 I_A/I_N = locked rotor current / current nominal
 M_A/M_N = locked rotor torque / torque nominal
 M_R/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> | Link documents |
| SIEMENS | document type datasheet | document status released | | document number | |
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Special design

Y99 special motor design S6 60%


Notes:

I_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal

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 1C411

M_b/M_N = break down torque / nominal torque

| | | | | | |
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