

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



Motor type : 1AV2132B

SIMOTICS GP - 132 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_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 | 7.50 | -/- | 14.70 | 1465 | 49.0 | 88.7 | 89.8 | 89.8 | 0.83 | 0.78 | 0.69 | 6.9 | 2.3 | 2.9 | IE2 |
| 690 | Y | 50 | 7.50 | -/- | 8.50 | 1465 | 49.0 | 88.7 | 89.8 | 89.8 | 0.83 | 0.78 | 0.69 | 6.9 | 2.3 | 2.9 | IE2 |
| 460 | Δ | 60 | 8.60 | -/- | 14.50 | 1765 | 46.5 | 89.5 | 90.0 | 90.1 | 0.83 | 0.81 | 0.71 | 7.1 | 2.3 | 2.9 | IE2 |
| 460 | Δ | 60 | 7.50 | -/- | 12.80 | 1770 | 40.5 | 89.5 | 90.0 | 89.3 | 0.82 | 0.78 | 0.68 | 8.0 | 2.7 | 3.4 | IE2 |
| IM B5 / IM 3001 | | | FS 132 M | | 49 kg | IP55 | | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | |

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 12.2 s | 21.3 s

Mechanical data

| | | | | |
|----------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz | 64.0 / 76.0 dB(A) ²⁾ | 68.0 / 80.0 dB(A) ²⁾ | External earthing terminal | No |
| Moment of inertia | 0.0280 kg m ² | | Vibration severity grade | A |
| Bearing DE NDE | 6208 2Z C3 | 6208 2Z 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 |
| Lubricants | Unirex N3 | | Frame material | aluminum |
| Regreasing device | No | | Coating (paint finish) | Standard paint finish C2 |
| Grease nipple | -/- | | Color, paint shade | RAL7030 |
| Type of bearing | Preloaded bearing DE | | Motor protection | (A) without (Standard) |
| Condensate drainage holes | -/- | | Method of cooling | IC411 - self ventilated, surface cooled |

Terminal box

| | | | |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position | top | Max. cross-sectional area | 6.0 mm ² |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 11.0 mm - 21.0 mm |
| Type of terminal box | TB1 H00 | Cable entry | 2xM32x1,5-1xM16x1,5 |
| Contact screw thread | M4 | Cable gland | 3 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 | | | |
| | title 1LE1001-1CB23-4FA4-Z F01+F12 | document number | | | | | |
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Special design

| | | | |
|-----|------------------|-----|-----------------------------------------|
| F01 | Mounting a brake | F12 | Brake supply voltage 400 V AC, 50/60 Hz |
|-----|------------------|-----|-----------------------------------------|

Additional information:

Brake:

| | | | |
|--------------|-----------|--------------------|----------|
| Description: | BFK458-16 | Current: | .31 A |
| Voltage: | AC 400 V | Moment of inertia: | .0015 Nm |

Notes:

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