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

**Motor type : 1AV2132B** **SIMOTICS XP - 132 M - IM V1 - 4p**

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

**II 3G Ex ec IIC T3 Gc**

**Electrical data** **-/-**

| U [V] | Δ / Y | f [Hz] | P [kW] | P [hp] | I [A] | n [1/min] | M [Nm] | η 3) 4/4 | η 3) 3/4 | η 3) 2/4 | cosφ 3) 4/4 | cosφ 3) 3/4 | cosφ 3) 2/4 | $I_A/I_N$ $I_I/I_N$ | $M_A/M_N$ $T_I/T_N$ | $M_K/M_N$ $T_B/T_N$ | IE-CL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **DOL duty (S1)** - 155(F) to 130(B) | | | | | | | | | | | | | | | | | |
| 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 V1 / IM 3011 | | | FS 132 M | | | IP55 | | IEC/EN 60034 | | | IEC, DIN, ISO, VDE, EN | | | | | | |

Environmental conditions : -20 °C - +40 °C / 1,000 m | Locked rotor time (hot / cold) : 12.4 s | 21.6 s

## Mechanical data

| | | | | |
|---|---|---|---|---|
| Sound level (SPL / SWL) at 50Hz\|60Hz | 64 / 76 dB(A) 2) 3) | 68 / 80 dB(A) 2) 3) | Vibration severity grade | A |
| Moment of inertia | 0.0280 kg m² | | Thermal class | F |
| Bearing DE \| NDE | 6208 2Z C3 | 6208 2Z C3 | Duty type | S1 |
| **bearing lifetime** | | | Direction of rotation | bidirectional |
| $L_{10mh}$ $F_{Rad\ min}$ for coupling operation 50\|60Hz 1) | 20000 h | 16000 h | Frame material | aluminum |
| Regreasing device | Without | | Net weight of the motor (IM B3) | 49 kg |
| Grease nipple | -/- | | Coating (paint finish) | No paint finish (cast iron parts primed) |
| Type of bearing | Preloaded bearing DE | | Color, paint shade | RAL7030 |
| Condensate drainage holes | Without | | Motor protection | (A) without (Standard) |
| External earthing terminal | With (standard) | | Method of cooling | IC411 - self ventilated, surface cooled |

## Terminal box

| | | | |
|---|---|---|---|
| Terminal box position | top | Max. cross-sectional area | 6 mm² |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 11 mm - 21 mm |
| Type of terminal box | TB1 H00 | Cable entry | 2xM32x1,5 |
| Contact screw thread | M4 | | |

**Notes:**

$I_A/I_N$ = locked rotor current / current nominal
$M_A/M_N$ = locked rotor torque / torque nominal
$M_K/M_N$ = break down torque / nominal torque

1) $L_{10mh}$ 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. | technical reference | created by | approved by | *Technical data are subject to change! There may be discrepancies between calculated and rating plate values.* | Link documents |
|---|---|---|---|---|---|
| IN LVM | | SPC | | | |

SIEMENS

| document type | document status |
|---|---|
| datasheet | released |
| title | document number |
| **1MB1031-1CB23-4GA4-Z** **B02+H00+S00** | |

| rev. | creation date | language | Page |
|---|---|---|---|
| 951 | 2023-12-14 | en | 1/2 |

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

**Motor type : 1AV2132B** **SIMOTICS XP - 132 M - IM V1 - 4p**

**Special design**

| | | | |
|---|---|---|---|
| B02 | Acceptance test certificate 3.1 acc. to EN 10204 | S00 | No paint finish, only GG parts primed |
| H00 | Canopy | | |

**Notes:**

| | | | | | | |
|---|---|---|---|---|---|---|
| responsible dep.<br>IN LVM | technical reference | created by<br>SPC | approved by | *Technical data are subject to change! There may be discrepancies between calculated and rating plate values.* | | Link documents |
| SIEMENS | document type<br>datasheet | | | document status<br>released | | |
| | title<br>1MB1031-1CB23-4GA4-Z | | | document number | | |
|  | B02+H00+S00 | | | rev.<br>951 | creation date<br>2023-12-14 | language<br>en / Page<br>2/2 |