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

**Motor type : 1AV3130A** **SIMOTICS GP - 132 S - IM B35 - 2p**

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

Remarks

**Safe Area**

**-/-**

## 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 | $I_A/I_N$ $I_l/I_N$ | $M_A/M_N$ $T_l/T_N$ | $M_K/M_N$ $T_B/T_N$ | IE-CL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **DOL duty (S1)** - 155(F) to 130(B) | | | | | | | | | | | | | | | | | |
| 400 | Δ | 50 | 5.50 | -/- | 10.10 | 2945 | 17.8 | 89.2 | 89.5 | 88.6 | 0.88 | 0.84 | 0.73 | 8.9 | 2.5 | 3.8 | IE3 |
| 690 | Y | 50 | 5.50 | -/- | 5.90 | 2945 | 17.8 | 89.2 | 89.5 | 88.6 | 0.88 | 0.84 | 0.73 | 8.9 | 2.5 | 3.8 | IE3 |
| 460 | Δ | 60 | 6.30 | -/- | 10.00 | 3540 | 17.0 | 88.5 | 89.0 | 88.1 | 0.89 | 0.84 | 0.75 | 9.9 | 2.6 | 4.0 | IE2 |
| 460 | Δ | 60 | 5.50 | -/- | 8.90 | 3550 | 14.8 | 89.5 | 89.0 | 87.0 | 0.87 | 0.82 | 0.71 | 11.1 | 3.0 | 4.6 | IE3 |
| IM B35 / IM 2001 | | | FS 132 S | | | IP55 | UKCA | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | |

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 10.8 s | 14.7 s

## Mechanical data

| | | | | |
|---|---|---|---|---|
| Sound level (SPL / SWL) at 50Hz\|60Hz | 69 / 77 dB(A) 2) 3) | 74 / 82 dB(A) 2) 3) | Vibration severity grade | A |
| Moment of inertia | 0.0168 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) | 40000 h | 32000 h | Frame material | aluminum |
| Regreasing device | Without | | Net weight of the motor (IM B3) | 48 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 | 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 | Cable gland | 2 plugs |

$I_A/I_N$ = 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

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|---|---|---|---|---|---|
| IN LVM | | SPC | Created automatically | | |

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