

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



Motor type : 1AV3133C

SIMOTICS GP - 132 M - IM B3 - 6p

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

Remarks

## Electrical data

## Safe Area

| U<br>[V]                                             | Δ / Y | f<br>[Hz] | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[1/min] | M<br>[Nm] | η <sup>3)</sup> |                                                  |     | cosφ <sup>3)</sup>     |     |     | I <sub>A</sub> /I <sub>N</sub> | M <sub>A</sub> /M <sub>N</sub> | M <sub>K</sub> /M <sub>N</sub> | IE-CL |
|------------------------------------------------------|-------|-----------|-----------|-----------|----------|--------------|-----------|-----------------|--------------------------------------------------|-----|------------------------|-----|-----|--------------------------------|--------------------------------|--------------------------------|-------|
|                                                      |       |           |           |           |          |              |           | 4/4             | 3/4                                              | 2/4 | 4/4                    | 3/4 | 2/4 | I <sub>I</sub> /I <sub>N</sub> | T <sub>I</sub> /T <sub>N</sub> | T <sub>B</sub> /T <sub>N</sub> |       |
| IM B3 / IM 1001                                      |       |           | FS 132 M  |           | 58 kg    |              | IP55      | IEC/EN 60034    |                                                  |     | IEC, DIN, ISO, VDE, EN |     |     |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |           |           |           |          |              |           |                 | Locked rotor time (hot / cold) : 16.4 s   22.1 s |     |                        |     |     |                                |                                |                                |       |

## Mechanical data

|                                                                                     |                                 |                                 |                            |                                               |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 69.0 / 73.0 dB(A) <sup>2)</sup> | 69.0 / 73.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                            |
| Moment of inertia                                                                   | 0.0500 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                             |
| Bearing DE   NDE                                                                    | 6208 2Z C3                      | 6208 2Z C3                      | Insulation                 | 155(F) to 130(B)                              |
| <b>bearing lifetime</b>                                                             |                                 |                                 | Duty type                  | S1                                            |
| L <sub>10mh</sub> F <sub>rad min</sub> for coupling operation 50 60Hz <sup>1)</sup> | 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          | IC416 - separately ventilated, surface cooled |

## Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 6.0 mm <sup>2</sup> |
| 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  
 $M_A/M_N$  = 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.<br>DI MC LVM                                                      | technical reference                                  | created by<br>DT Configurator | approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |                                   |                |             |
|  | document type<br>datasheet                           |                               |             | document status<br>released                                                                                  |                                   | customer       |             |
|                                                                                    | title<br>1LE1003-1CC39-0AA4-Z<br>F01+F11+F70+G11+M1Y |                               |             | document number                                                                                              |                                   |                |             |
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### Special design

|     |                                          |     |                                        |
|-----|------------------------------------------|-----|----------------------------------------|
| F01 | Mounting a brake                         | G11 | Rotary pulse encoder Sendix 5020 (HTL) |
| F11 | Brake supply voltage, 230 V AC, 50/60 Hz | M1Y | Non-standard winding:                  |
| F70 | Mounting of separately driven fan        |     |                                        |

### Additional information:

#### Brake:

|              |           |                    |          |
|--------------|-----------|--------------------|----------|
| Description: | BFK458-16 | Current:           | .27 A    |
| Voltage:     | AC 230 V  | Moment of inertia: | .0015 Nm |

#### Notes:

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