



**SIMOTICS GP - 132 S - IM B5 - 2p**

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

|         |
|---------|
| Remarks |
|---------|

## Safe Area

| U                                                    | Δ / Y | f    | P        | P    | I     | n       | M    | 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 |
|------------------------------------------------------|-------|------|----------|------|-------|---------|------|-----------------|------|-------------------------------------------------|--------------------|------|------|--------------------------------|--------------------------------|--------------------------------|-------|
| [V]                                                  |       | [Hz] | [kW]     | [hp] | [A]   | [1/min] | [Nm] | 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> |       |
| <b>DOL duty (S1) - 155(F) to 130(B)</b>              |       |      |          |      |       |         |      |                 |      |                                                 |                    |      |      |                                |                                |                                |       |
| 400                                                  | Δ     | 50   | 7.50     | -/-  | 13.10 | 2950    | 24.5 | 90.1            | 91.0 | 91.0                                            | 0.92               | 0.90 | 0.84 | 8.3                            | 1.9                            | 3.9                            | IE3   |
| 690                                                  | Y     | 50   | 7.50     | -/-  | 7.60  | 2950    | 24.5 | 90.1            | 91.0 | 91.0                                            | 0.92               | 0.90 | 0.84 | 8.3                            | 1.9                            | 3.9                            | IE3   |
| 460                                                  | Δ     | 60   | 8.60     | -/-  | 13.00 | 3550    | 23.0 | 90.2            | 90.8 | 90.5                                            | 0.92               | 0.90 | 0.84 | 8.2                            | 2.0                            | 3.9                            | IE3   |
| 460                                                  | Δ     | 60   | 7.50     | -/-  | 11.50 | 3560    | 20.0 | 90.2            | 90.4 | 89.6                                            | 0.91               | 0.88 | 0.82 | 9.4                            | 2.2                            | 4.5                            | IE3   |
| IM B5 / IM 3001                                      |       |      | FS 132 S |      |       | IP65    | UKCA | IEC/EN 60034    |      | IEC, DIN, ISO, VDE, EN                          |                    |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |          |      |       |         |      |                 |      | Locked rotor time (hot / cold) : 9.3 s   13.6 s |                    |      |      |                                |                                |                                |       |

|                                                                                        |                                |                                |                                 |                                                    |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 68 / 80 dB(A) <sup>2) 3)</sup> | 72 / 84 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                  |
| Moment of inertia                                                                      | 0.0310 kg m²                   |                                | Thermal class                   | F                                                  |
| Bearing DE   NDE                                                                       | 6208 2Z C3                     | 6208 2Z C3                     | Duty type                       | S1                                                 |
| <b>bearing lifetime</b>                                                                |                                |                                | Direction of rotation           | bidirectional                                      |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation<br>50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                           |
| Regreasing device                                                                      | Without                        |                                | Net weight of the motor (IM B3) | 57 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                | (B) 3 PTC thermistors - for tripping (2 terminals) |
| External earthing terminal                                                             | Without                        |                                | Method of cooling               | IC411 - self ventilated, surface cooled            |

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| 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                    | 2xM32x1,5-1xM16x1,5 |
| Contact screw thread     | M4        | Cable gland                    | 3 plugs             |

Notes:

|                                                          |                                           |                                                                  |
|----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| $I_{lr}/I_{ln}$ = locked rotor current / current nominal | 1) L10mh according to DIN ISO 281 10/2010 | 3) Value is valid only for DOL operation with motor design IC411 |
| $M_{lr}/M_{ln}$ = locked rotor torque / torque nominal   | 2) at rated power / at full load          |                                                                  |
| $M_b/M_{ln}$ = break down torque / nominal torque        |                                           |                                                                  |

|                                                                                    |                               |                               |             |                                                                                                              |                             |                                                                                                                         |             |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------|
| 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. |                             | <a href="#">Link documents</a><br> |             |
|  | document type<br>datasheet    |                               |             | document status<br>released                                                                                  |                             |                                    |             |
|                                                                                    | title<br>1LE1003-1CA13-4FB4-Z |                               |             | document number                                                                                              |                             |                                                                                                                         |             |
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV3131A

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Special design

H20 IP 65 degree of protection

Notes:

|                                                                                    |                               |                               |             |                                                                                                              |                                |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|--------------------------------|
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|                                                                                    |                               |                               |             |                                                                                                              | creation date<br>2023-03-01    |
|                                                                                    |                               | language<br>en                | Page<br>2/2 |                         |                                |