



**SIMOTICS GP - 160 M - IM B3 - 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   | 15.00    | -/-  | 27.50 | 2955    | 48.5 | 91.9            | 91.9                                             | 90.8                   | 0.86               | 0.81 | 0.71 | 10.2                           | 3.5                            | 4.4                            | IE3   |
| 690                                                  | Y     | 50   | 15.00    | -/-  | 15.90 | 2955    | 48.5 | 91.9            | 91.9                                             | 90.8                   | 0.86               | 0.81 | 0.71 | 10.2                           | 3.5                            | 4.4                            | IE3   |
| 460                                                  | Δ     | 60   | 17.30    | -/-  | 27.00 | 3550    | 46.5 | 91.7            | 91.4                                             | 90.2                   | 0.88               | 0.84 | 0.75 | 10.1                           | 3.3                            | 4.5                            | IE3   |
| 460                                                  | Δ     | 60   | 15.00    | -/-  | 24.00 | 3560    | 40.0 | 91.0            | 90.4                                             | 88.5                   | 0.86               | 0.81 | 0.71 | 11.8                           | 4.0                            | 5.2                            | IE3   |
| IM B3 / IM 1001                                      |       |      | FS 160 M |      |       | IP55    | UKCA | IEC/EN 60034    |                                                  | IEC, DIN, ISO, VDE, EN |                    |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |          |      |       |         |      |                 | Locked rotor time (hot / cold) : 13.3 s   18.9 s |                        |                    |      |      |                                |                                |                                |       |

|                                                                                     |                                |                                |                                 |                                                    |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 77 / 85 dB(A) <sup>2) 3)</sup> | 81 / 89 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                  |
| Moment of inertia                                                                   | 0.0430 kg m²                   |                                | Thermal class                   | F                                                  |
| Bearing DE   NDE                                                                    | 6209 2Z C3                     | 6209 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 50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                           |
| Regreasing device                                                                   | Without                        |                                | Net weight of the motor (IM B3) | 78 kg                                              |
| Grease nipple                                                                       | -/-                            |                                | Coating (paint finish)          | Standard paint finish C2                           |
| Type of bearing                                                                     | Locating bearing NDE           |                                | 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      | 16 mm²              |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 19 mm - 28 mm       |
| Type of terminal box     | TB1 J00   | Cable entry                    | 2xM40x1,5-1xM16x1,5 |
| Contact screw thread     | M5        | Cable gland                    | 3 plugs             |

## Notes:

|                                                    |                                                 |                                                                  |
|----------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------|
| $I_L/I_N$ = locked rotor current / current nominal | 1) $L_{10min}$ according to DIN ISO 281 10/2010 | 3) Value is valid only for DOL operation with motor design IC411 |
| $M_L/M_N$ = locked rotor torque / torque nominal   | 2) at rated power / at full load                |                                                                  |
| $M_b/M_N$ = break down torque / nominal torque     |                                                 |                                                                  |

|                            |                               |                   |             |                                                                                                              |                             |                                                                                       |             |
|----------------------------|-------------------------------|-------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
| 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. |                             | <a href="#">Link documents</a>                                                        |             |
| SIEMENS                    | document type<br>datasheet    |                   |             | document status<br>released                                                                                  |                             |  |             |
|                            | title<br>1LE1003-1DA33-4AB4-Z |                   |             | document number                                                                                              |                             |                                                                                       |             |
| © INNOMOTICS 2023          | B02                           |                   |             | rev.<br>951                                                                                                  | creation date<br>2023-12-01 | language<br>en                                                                        | Page<br>1/2 |

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



Motor type : 1AV3163A

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Special design

B02      Acceptance test certificate 3.1 acc. to EN 10204

Notes:

|                                                                                    |                               |                   |             |                                                                                                              |                                |
|------------------------------------------------------------------------------------|-------------------------------|-------------------|-------------|--------------------------------------------------------------------------------------------------------------|--------------------------------|
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|                                                                                    |                               |                   |             | language<br>en                                                                                               | Page<br>2/2                    |

