



**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> |       |
| 400             | Δ     | 50   | 15.00    | -/-  | 27.00 | 2960    | 48.5 | 91.9            | 91.8 | 90.5         | 0.87               | 0.83                   | 0.74 | 8.8                            | 2.8                            | 4.3                            | IE3   |
| 690             | Y     | 50   | 15.00    | -/-  | 15.70 | 2960    | 48.5 | 91.9            | 91.8 | 90.5         | 0.87               | 0.83                   | 0.74 | 8.8                            | 2.8                            | 4.3                            | IE3   |
| 460             | Δ     | 60   | 17.30    | -/-  | 27.00 | 3560    | 46.5 | 91.7            | 91.3 | 89.7         | 0.88               | 0.85                   | 0.77 | 8.7                            | 2.7                            | 4.2                            | IE3   |
| 460             | Δ     | 60   | 15.00    | -/-  | 24.00 | 3565    | 40.0 | 91.0            | 90.0 | 87.6         | 0.86               | 0.82                   | 0.73 | 9.7                            | 3.1                            | 4.8                            | IE3   |
| IM B3 / IM 1001 |       |      | FS 160 M |      | 84 kq |         | IP55 |                 |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 12.8 s | 19.9 s

## Mechanical data

|                                                                                          |                                 |                                 |                            |                                         |
|------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                     | 70.0 / 82.0 dB(A) <sup>2)</sup> | 77.0 / 89.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                      |
| Moment of inertia                                                                        | 0.0610 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                       |
| Bearing DE   NDE                                                                         | 6209 2Z C3                      | 6209 2Z C3                      | Insulation                 | 155(F) to 130(B)                        |
| bearing lifetime                                                                         |                                 |                                 | Duty type                  | S1                                      |
| L <sub>10mh</sub> , F <sub>Rad min</sub> for coupling operation<br>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                                                                          | Locating bearing NDE            |                                 | Motor protection           | (A) without (Standard)                  |
| Condensate drainage holes                                                                | -/-                             |                                 | Method of cooling          | IC411 - self ventilated, surface cooled |

## Terminal box

|                          |           |                                |                   |
|--------------------------|-----------|--------------------------------|-------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 16.0 mm²          |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 19.0 mm - 28.0 mm |
| Type of terminal box     | TB1 J00   | Cable entry                    | 2xM40x1,5         |
| Contact screw thread     | M5        | Cable gland                    | 2 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.                                                                   | technical reference | created by      | approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |                  |          |      |
| DI MC LVM                                                                          |                     | DT Configurator |             |                                                                                                              |                  |          |      |
|  | document type       |                 |             | document status                                                                                              |                  | customer |      |
|                                                                                    | datasheet           |                 |             | released                                                                                                     |                  |          |      |
|                                                                                    | title               |                 |             | document number                                                                                              |                  |          |      |
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