

**SIMOTICS GP - 160 M - IM B3 - 8p**

|                  |                 |           |
|------------------|-----------------|-----------|
| 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   | 5.50     | -/-  | 14.10 | 730     | 72.0 | 83.8            | 84.2 | 83.0         | 0.67               | 0.60                   | 0.49 | 3.9                            | 1.7                            | 2.0                            | IE2   |
| 690             | Y     | 50   | 5.50     | -/-  | 8.20  | 730     | 72.0 | 83.8            | 84.2 | 83.0         | 0.67               | 0.60                   | 0.49 | 3.9                            | 1.7                            | 2.0                            | IE2   |
| 460             | Δ     | 60   | 6.30     | -/-  | 13.80 | 880     | 68.0 | 85.5            | 86.0 | 85.0         | 0.67               | 0.61                   | 0.51 | 4.0                            | 1.7                            | 2.0                            | IE2   |
| 460             | Δ     | 60   | 5.50     | -/-  | 12.40 | 885     | 59.0 | 85.5            | 85.6 | 84.0         | 0.65               | 0.59                   | 0.48 | 4.4                            | 2.0                            | 2.3                            | IE2   |
| IM B3 / IM 1001 |       |      | FS 160 M |      | 82 kq |         | IP56 |                 |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |

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

Locked rotor time (hot / cold) : 59.8 s | 85.5 s

## Mechanical data

|                                                                                     |                                 |                                 |                            |                                         |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 63.0 / 75.0 dB(A) <sup>2)</sup> | 71.0 / 83.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                      |
| Moment of inertia                                                                   | 0.0830 kg m²                    |                                 | 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 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                                                           | No                              |                                 | 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                                                                                              |                  |          |      |
|                                                                                    | 1LE1001-1DD33-4AA4-Z |                 |             |                                                                                                              |                  |          |      |
|                                                                                    | D22+H22              |                 |             | rev.                                                                                                         | creation date    | language | Page |
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## Special design

|     |                                                                                    |     |                            |
|-----|------------------------------------------------------------------------------------|-----|----------------------------|
| D22 | motor without CE character for export outside the EEA (see EU regulation 640/2009) | H22 | IP 56 degree of protection |
|-----|------------------------------------------------------------------------------------|-----|----------------------------|

Notes:

*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

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