



**SIMOTICS GP - 160 L - IM B3 - 4p**

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

Remarks

## Safe Area

| U               | $\Delta / Y$ | f    | P        | P    | I     | n       | M    | $\eta^{3)}$  |      |      | $\cos\varphi^{3)}$     |      |      | $I_A/I_N$ | $M_A/M_N$ | $M_K/M_N$ | IE-CL |
|-----------------|--------------|------|----------|------|-------|---------|------|--------------|------|------|------------------------|------|------|-----------|-----------|-----------|-------|
| [V]             |              | [Hz] | [kW]     | [hp] | [A]   | [1/min] | [Nm] | 4/4          | 3/4  | 2/4  | 4/4                    | 3/4  | 2/4  | $I_I/I_N$ | $T_I/T_N$ | $T_B/T_N$ |       |
| 400             | $\Delta$     | 50   | 15.00    | -/-  | 30.00 | 1460    | 98.0 | 88.7         | 89.0 | 87.8 | 0.82                   | 0.76 | 0.63 | 7.5       | 3.0       | 3.6       | IE1   |
| 690             | Y            | 50   | 15.00    | -/-  | 17.30 | 1460    | 98.0 | 88.7         | 89.0 | 87.8 | 0.82                   | 0.76 | 0.63 | 7.5       | 3.0       | 3.6       | IE1   |
| 460             | $\Delta$     | 60   | 17.30    | -/-  | 28.50 | 1755    | 94.0 | 90.5         | 90.9 | 89.8 | 0.84                   | 0.79 | 0.68 | 8.0       | 2.9       | 3.6       | IE1   |
|                 |              |      |          |      |       |         |      |              |      |      |                        |      |      |           |           |           |       |
| IM B3 / IM 1001 |              |      | FS 160 L |      | 73 kg |         | IP55 | IEC/EN 60034 |      |      | IEC, DIN, ISO, VDE, EN |      |      |           |           |           |       |

Locked rotor time (hot / cold) : 6.88 s | 14 s

## Mechanical data

|                                                                                        |                                 |                                 |                            |                                                  |
|----------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|--------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 65.0 / 77.0 dB(A) <sup>2)</sup> | 69.0 / 81.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                               |
| Moment of inertia                                                                      | 0.0560 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                                |
| Bearing DE   NDE                                                                       | 6209 Z C3                       | 6209 Z 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                                    |
| Relubrication interval/quantity DE   NDE                                               | 10 g   10 g<br>8000 h           |                                 | Frame material             | aluminum                                         |
| Lubricants                                                                             | Unirex N3                       |                                 | Coating (paint finish)     | Standard paint finish C2                         |
| Regreasing device                                                                      | Yes                             |                                 | Color, paint shade         | RAL7030                                          |
| Grease nipple                                                                          | M8x1 DIN 71412                  |                                 | Motor protection           | (F) 1 temperature sensor KTY84-130 (2 terminals) |
| Type of bearing                                                                        | Locating bearing NDE            |                                 | Method of cooling          | IC411 - self ventilated, surface cooled          |
| Condensate drainage holes                                                              | -/-                             |                                 |                            |                                                  |

## 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                    | 2xM40x1,5-1xM16x1,5 |
| Contact screw thread     | M5        | Cable gland                    | 3 plugs             |

**Notes:**

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>1LE1002-1DB43-4AF4-Z |                               |             |  | document number                                                                                              |                                   |                |             |
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|     |                                                                                    |     |                   |
|-----|------------------------------------------------------------------------------------|-----|-------------------|
| D22 | motor without CE character for export outside the EEA (see EU regulation 640/2009) | L23 | Regreasing system |
|-----|------------------------------------------------------------------------------------|-----|-------------------|

|        |
|--------|
| Notes: |
|        |

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