



**SIMOTICS GP - 160 L - IM B3 - 6p**

|                  |                 |           |
|------------------|-----------------|-----------|
| 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 | $I_I/I_N$ | $T_I/T_N$ | $T_B/T_N$ |       |

**DOL duty (S1) - 155(F) to 130(B)**

|                 |          |      |      |              |                        |
|-----------------|----------|------|------|--------------|------------------------|
| IM B3 / IM 1001 | FS 160 L | IP55 | UKCA | IEC/EN 60034 | IEC, DIN, ISO, VDE, EN |
|-----------------|----------|------|------|--------------|------------------------|

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

Locked rotor time (hot / cold) : 21.8 s | 31.7 s

## Mechanical data

|                                                                                        |                                |                                |                                 |                                                    |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 67 / 79 dB(A) <sup>2) 3)</sup> | 70 / 82 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                  |
| Moment of inertia                                                                      | 0.1640 kg m <sup>2</sup>       |                                | 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<br>50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                           |
| Regreasing device                                                                      | Without                        |                                | Net weight of the motor (IM B3) | 115 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

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| 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:

$I_A/I_N$  = 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. |               | <a href="#">Link documents</a>                                                        |      |
| IN LVM                                                                             |                      | SPC        |             |                                                                                                              |               |  |      |
|  | document type        |            |             | document status                                                                                              |               |  |      |
|                                                                                    | datasheet            |            |             | released                                                                                                     |               |                                                                                       |      |
|                                                                                    | title                |            |             | document number                                                                                              |               |                                                                                       |      |
|                                                                                    | 1LE1043-1DC49-0AB4-Z |            |             |                                                                                                              |               |                                                                                       |      |
|                                                                                    | B02+H01+M11+M1Y+Y99  |            |             | rev.                                                                                                         | creation date | language                                                                              | Page |
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV3164C

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Special design

|     |                                                  |     |                       |
|-----|--------------------------------------------------|-----|-----------------------|
| B02 | Acceptance test certificate 3.1 acc. to EN 10204 | M1Y | Non-standard winding: |
| H01 | Bolted on mounting feet (instead of cast)        | Y99 | special motor design  |
| M11 | Stainless steel rating plate                     |     |                       |

Notes:

|                                                                                    |                               |                       |             |                                                                                                              |                             |                                                                                                                         |             |
|------------------------------------------------------------------------------------|-------------------------------|-----------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------|
| responsible dep.<br><br>IN LVM                                                     | technical reference           | created by<br><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><br> |             |
|  | document type<br>datasheet    |                       |             | document status<br>released                                                                                  |                             |                                                                                                                         |             |
|                                                                                    | title<br>1LE1043-1DC49-0AB4-Z |                       |             | document number                                                                                              |                             |                                                                                                                         |             |
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