



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

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

## 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> |       |
| 230             | Δ     | 50   | 11.00    | -/-  | 38.00  | 980     | 107.0 | 90.3            | 90.7 | 89.8         | 0.80               | 0.75                   | 0.64 | 6.8                            | 2.9                            | 2.8                            | IE3   |
| 400             | Y     | 50   | 11.00    | -/-  | 22.00  | 980     | 107.0 | 90.3            | 90.7 | 89.8         | 0.80               | 0.75                   | 0.64 | 6.8                            | 2.9                            | 2.8                            | IE3   |
| 460             | Y     | 60   | 12.60    | -/-  | 22.00  | 1180    | 102.0 | 90.2            | 90.5 | 89.5         | 0.80               | 0.75                   | 0.65 | 7.1                            | 3.0                            | 2.8                            | IE2   |
| 460             | Y     | 60   | 11.00    | -/-  | 19.60  | 1185    | 89.0  | 90.2            | 90.1 | 88.5         | 0.78               | 0.72                   | 0.61 | 8.0                            | 3.4                            | 3.2                            | IE2   |
| IM B3 / IM 1001 |       |      | FS 160 L |      | 106 kg |         | IP55  |                 |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |

Locked rotor time (hot / cold) : 18 s | 25.6 s

|                                                                                     |                                 |                                 |                            |                                               |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 75.0 / 79.0 dB(A) <sup>2)</sup> | 75.0 / 79.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                            |
| Moment of inertia                                                                   | 0.1640 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                                                           | -/                              |                                 | Method of cooling          | IC416 - separately ventilated, surface cooled |

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

|                                                          |                                           |                                                                  |
|----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| $I_{lr}/I_{ln}$ = locked rotor current / current nominal | 1) L10mh according to DIN ISO 281 10/2010 | 3) Value is valid only for DOL operation with motor design IC411 |
| $M_{lr}/M_{ln}$ = locked rotor torque / torque nominal   | 2) at rated power / at full load          |                                                                  |
| $M_b/M_{ln}$ = break down torque / nominal torque        |                                           |                                                                  |

|                                                                                    |                      |                 |                  |                                                                                                              |      |  |  |
|------------------------------------------------------------------------------------|----------------------|-----------------|------------------|--------------------------------------------------------------------------------------------------------------|------|--|--|
| 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 |                  |                                                                                                              |      |  |  |
|                                                                                    | 1LE1003-1DC42-2AA4-Z |                 |                  |                                                                                                              |      |  |  |
|                                                                                    | F70+G11              | 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

F70 Mounting of separately driven fan G11 Rotary pulse encoder Sendix 5020 (HTL)

### Notes:

|                                                                                    |                               |                               |                                   |  |                                                                                                              |             |  |  |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------|-------------|--|--|
| 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>1LE1003-1DC42-2AA4-Z |                               |                                   |  |                                                                                                              |             |  |  |
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