



**SIMOTICS GP - 63 M - IM B14 - 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  | $I_I/I_N$ | $T_I/T_N$ | $T_B/T_N$ |       |
| 230              | $\Delta$     | 50   | 0.18    | -/-  | 1.07 | 1385    | 1.2  | 64.7        | 62.4 | 55.7         | 0.65               | 0.56                   | 0.44 | 3.3       | 2.6       | 2.6       | IE2   |
| 400              | Y            | 50   | 0.18    | -/-  | 0.62 | 1385    | 1.2  | 64.7        | 62.4 | 55.7         | 0.65               | 0.56                   | 0.44 | 3.3       | 2.6       | 2.6       | IE2   |
| 460              | Y            | 60   | 0.21    | -/-  | 0.60 | 1685    | 1.2  | 68.0        | 65.8 | 59.7         | 0.65               | 0.56                   | 0.45 | 3.8       | 2.8       | 2.9       | IE2   |
| 460              | Y            | 60   | 0.18    | -/-  | 0.56 | 1710    | 1.0  | 68.0        | 64.4 | 57.3         | 0.59               | 0.50                   | 0.40 | 3.9       | 3.3       | 3.4       | IE2   |
| IM B14 / IM 3601 |              |      | FS 63 M |      | kq   |         | IP65 |             |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |           |           |           |       |

Locked rotor time (hot / cold) : 35.9 s | 47.2 s

## Mechanical data

|                                                                                     |                          |                       |                            |                                         |
|-------------------------------------------------------------------------------------|--------------------------|-----------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | / dB(A) <sup>2)</sup>    | / dB(A) <sup>2)</sup> | External earthing terminal | No                                      |
| Moment of inertia                                                                   | 0.0004 kg m <sup>2</sup> |                       | Vibration severity grade   | A                                       |
| Bearing DE   NDE                                                                    | 6201 2ZC3                | 6201 2ZC3             | 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                                                                     | Preloaded bearing DE     |                       | 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      | 1.5 mm²          |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 9.0 mm - 17.0 mm |
| Type of terminal box     | TB1 B00   | Cable entry                    | -/-              |
| Contact screw thread     | M4        | Cable gland                    | -/-              |

**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                                                                                              |                  |          |      |
|                                                                                    | 1LE1001-0BB32-2KA4-Z |                 |             |                                                                                                              |                  |          |      |
|                                                                                    | H20                  |                 |             | rev.                                                                                                         | creation date    | language | Page |
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## Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV2063B

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### Special design

H20 IP 65 degree of protection

### 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. |                                   |                |             |
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