



**SIMOTICS GP - 80 M - IM B35 - 6p**

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

Remarks

## Safe Area

| U                                                 | Δ / Y | f<br>[Hz] | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[1/min] | M<br>[Nm] | $\eta^{(3)}$ |                                                  |                        | $\cos\varphi^{(3)}$ |      |      | $I_A/I_N$ | $M_A/M_N$ | $M_K/M_N$ | IE-CL |
|---------------------------------------------------|-------|-----------|-----------|-----------|----------|--------------|-----------|--------------|--------------------------------------------------|------------------------|---------------------|------|------|-----------|-----------|-----------|-------|
| [V]                                               |       |           |           |           |          |              |           | 4/4          | 3/4                                              | 2/4                    | 4/4                 | 3/4  | 2/4  | $I_I/I_N$ | $T_I/T_N$ | $T_B/T_N$ |       |
| <b>DOL duty (S1) - 155(F) to 130(B)</b>           |       |           |           |           |          |              |           |              |                                                  |                        |                     |      |      |           |           |           |       |
| 230                                               | Δ     | 50        | 0.55      | -/-       | 2.85     | 935          | 5.6       | 73.1         | 73.8                                             | 70.8                   | 0.66                | 0.57 | 0.45 | 4.4       | 2.5       | 2.9       | IE2   |
| 400                                               | Y     | 50        | 0.55      | -/-       | 1.65     | 935          | 5.6       | 73.1         | 73.8                                             | 70.8                   | 0.66                | 0.57 | 0.45 | 4.4       | 2.5       | 2.9       | IE2   |
| 460                                               | Y     | 60        | 0.63      | -/-       | 1.76     | 1135         | 5.3       | 68.0         | 68.4                                             | 65.8                   | 0.66                | 0.58 | 0.45 | 4.8       | 2.6       | 3.1       | IE2   |
| 460                                               | Y     | 60        | 0.55      | -/-       | 1.66     | 1145         | 4.6       | 68.0         | 67.4                                             | 63.7                   | 0.61                | 0.52 | 0.40 | 5.2       | 2.9       | 3.6       | IE2   |
| IM B35 / IM 2001                                  |       |           | FS 80 M   |           |          | IP55         | UKCA      | IEC/EN 60034 |                                                  | IEC, DIN, ISO, VDE, EN |                     |      |      |           |           |           |       |
| Environmental conditions : -20 °C +40 °C / 1000 m |       |           |           |           |          |              |           |              | Locked rotor time (hot / cold) : 21.8 s   30.3 s |                        |                     |      |      |           |           |           |       |

|                                                                                        |                                |                                |                                 |                                         |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 42 / 53 dB(A) <sup>2) 3)</sup> | 45 / 56 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                       |
| Moment of inertia                                                                      | 0.0025 kg m <sup>2</sup>       |                                | Thermal class                   | F                                       |
| Bearing DE   NDE                                                                       | 6004 2Z C3                     | 6004 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) | 12 kg                                   |
| Grease nipple                                                                          | -/-                            |                                | Coating (paint finish)          | Standard paint finish C2                |
| Type of bearing                                                                        | Preloaded bearing DE           |                                | Color, paint shade              | RAL7030                                 |
| Condensate drainage holes                                                              | Without                        |                                | Motor protection                | (A) without (Standard)                  |
| External earthing terminal                                                             | Without                        |                                | Method of cooling               | IC411 - self ventilated, surface cooled |

|                          |           |                                |              |
|--------------------------|-----------|--------------------------------|--------------|
| Terminal box position    | top       | Max. cross-sectional area      | 1.5 mm²      |
| Material of terminal box | Aluminium | Cable diameter from ... to ... | 9 mm - 17 mm |
| Type of terminal box     | TB1 E00   | Cable entry                    | 1xM25x1,5    |
| Contact screw thread     | M4        | Cable gland                    | 1 plug       |

Notes:

|                                                          |                                           |                                                                  |
|----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| $I_{Lr}/I_{Ln}$ = 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 |
| $M_r/M_{rn}$ = locked rotor torque / torque nominal      | 2) at rated power / at full load          |                                                                  |
| $M_b/M_{bn}$ = break down torque / nominal torque        |                                           |                                                                  |

|                               |                               |                               |             |                                                                                                              |                             |                                                                                       |             |
|-------------------------------|-------------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
| 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. |                             | <a href="#">Link documents</a>                                                        |             |
| SIEMENS                       | document type<br>datasheet    |                               |             | document status<br>released                                                                                  |                             |  |             |
|                               | title<br>1LE1001-0DC32-2JA4-Z |                               |             | document number                                                                                              |                             |                                                                                       |             |
| © Siemens AG 2023             | H01                           |                               |             | rev.<br>943                                                                                                  | creation date<br>2023-06-26 | language<br>en                                                                        | Page<br>1/2 |



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## Special design

|     |                                           |
|-----|-------------------------------------------|
| H01 | Bolted on mounting feet (instead of cast) |
|-----|-------------------------------------------|

Notes:

|                                                                                    |                      |                 |             |                                                                                                              |               |                                                                                       |      |
|------------------------------------------------------------------------------------|----------------------|-----------------|-------------|--------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|------|
| 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>                                                        |      |
| DI MC LVM                                                                          |                      | DT Configurator |             |                                                                                                              |               |  |      |
|  | document type        |                 |             | document status                                                                                              |               |  |      |
|                                                                                    | datasheet            |                 |             | released                                                                                                     |               |                                                                                       |      |
|                                                                                    | title                |                 |             | document number                                                                                              |               |                                                                                       |      |
|                                                                                    | 1LE1001-ODC32-2JA4-Z |                 |             |                                                                                                              |               |                                                                                       |      |
|                                                                                    | H01                  |                 |             | rev.                                                                                                         | creation date | language                                                                              | Page |
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