



**SIMOTICS GP - 90 L - IM B14 - 4p**

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

Remarks

## Safe Area

## Electrical data

-/-

| 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> |       |
| DOL duty (S1) - 155(F) to 130(B)                    |       |      |         |      |      |         |      |                 |                                                  |              |                    |                        |      |                                |                                |                                |       |
| 400                                                 | Y     | 50   | 1.50    | -/-  | 3.30 | 1435    | 10.0 | 82.8            | 83.5                                             | 82.2         | 0.79               | 0.71                   | 0.58 | 6.4                            | 2.6                            | 3.4                            | IE2   |
|                                                     |       |      |         |      |      |         |      |                 |                                                  |              |                    |                        |      |                                |                                |                                |       |
| 460                                                 | Y     | 60   | 1.75    | -/-  | 3.30 | 1730    | 9.7  | 84.0            | 85.0                                             | 84.0         | 0.79               | 0.73                   | 0.61 | 6.7                            | 2.5                            | 3.4                            | IE2   |
| 460                                                 | Y     | 60   | 1.50    | -/-  | 3.00 | 1745    | 8.2  | 84.0            | 84.0                                             | 81.9         | 0.75               | 0.67                   | 0.54 | 7.5                            | 2.9                            | 4.0                            | IE2   |
| IM B14 / IM 3601                                    |       |      | FS 90 L |      |      |         | IP55 | UKCA            |                                                  | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1000 m |       |      |         |      |      |         |      |                 | Locked rotor time (hot / cold) : 12.5 s   17.2 s |              |                    |                        |      |                                |                                |                                |       |

## Mechanical data

|                                                                                        |                                |                                |                                 |                                         |
|----------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 56 / 68 dB(A) <sup>2) 3)</sup> | 58 / 70 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                       |
| Moment of inertia                                                                      | 0.0036 kg m²                   |                                | Thermal class                   | F                                       |
| Bearing DE   NDE                                                                       | 6205 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) | 16 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

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

$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_K/M_N$  = break down torque / nominal torque

1)  $L_{10mh}$  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

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