

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV3204C

SIMOTICS SD - 200 L - IM B3 - 6p

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

Electrical data

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> |       |
| DOL duty (S1) - 155(F) to 130(B)                    |       |      |          |      |       |         |       |                 |                                                |              |                    |                        |      |                                |                                |                                |       |
| 400                                                 | Δ     | 50   | 18.50    | -/-  | 37.00 | 978     | 181.0 | 91.7            | 92.5                                           | 92.4         | 0.79               | 0.74                   | 0.64 | 5.6                            | 2.5                            | 2.6                            | IE3   |
| 690                                                 | Y     | 50   | 18.50    | -/-  | 21.50 | 978     | 181.0 | 91.7            | 92.5                                           | 92.4         | 0.79               | 0.74                   | 0.64 | 5.6                            | 2.5                            | 2.6                            | IE3   |
|                                                     |       |      |          |      |       |         |       |                 |                                                |              |                    |                        |      |                                |                                |                                |       |
|                                                     |       |      |          |      |       |         |       |                 |                                                |              |                    |                        |      |                                |                                |                                |       |
| IM B3 / IM 1001                                     |       |      | FS 200 L |      |       |         | IP55  | UKCA            |                                                | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1000 m |       |      |          |      |       |         |       |                 | Locked rotor time (hot / cold) : 46 s   65.2 s |              |                    |                        |      |                                |                                |                                |       |

Mechanical data

|                                                                                 |                                |                                |                                 |                                                               |
|---------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                            | 63 / 76 dB(A) <sup>2) 3)</sup> | 64 / 71 dB(A) <sup>2) 3)</sup> | External earthing terminal      | With (standard)                                               |
| Moment of inertia                                                               | 0.2800 kg m <sup>2</sup>       |                                | Vibration severity grade        | A                                                             |
| Bearing DE   NDE                                                                | 6312 C3                        | 6312 C3                        | Thermal class                   | F                                                             |
| bearing lifetime                                                                |                                |                                | Duty type                       | S1                                                            |
| L <sub>10mh</sub> F <sub>Rad</sub> <sup>1)</sup> for coupling operation 50 60Hz | 40000 h                        | 32000 h                        | Direction of rotation           | bidirectional                                                 |
| Relubrication interval/quantity DE   NDE                                        | 20 g   20 g<br>8000 h          |                                | Frame material                  | cast iron                                                     |
| Lubricants                                                                      | Unirex N3                      |                                | Net weight of the motor (IM B3) | 215 kg                                                        |
| Regreasing device                                                               | With regreasing nipple         |                                | Coating (paint finish)          | Special paint finish C3                                       |
| Grease nipple                                                                   | M10x1 DIN 71412 A              |                                | Color, paint shade              | RAL7030                                                       |
| Type of bearing                                                                 | Locating bearing NDE           |                                | Motor protection                | (B) 3 PTC thermistors - for tripping (standard) (2 terminals) |
| Condensate drainage holes                                                       | With (standard)                |                                | Method of cooling               | IC411 - self ventilated, surface cooled                       |

Terminal box

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 25 mm <sup>2</sup>  |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 27 mm - 35 mm       |
| Type of terminal box     | TB1 L61   | Cable entry                    | 2xM50x1,5-2xM20x1,5 |
| Contact screw thread     | M6        | Cable gland                    | 4 plugs             |

Notes:

I<sub>A</sub>/I<sub>N</sub> = 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<sub>K</sub>/M<sub>N</sub> = locked rotor torque / torque nominal      2) at rated power / at full load

M<sub>B</sub>/M<sub>N</sub> = 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. |                 | <a href="#">Link documents</a>                                                        |          |      |
| DI MC LVM                                                                          |                     | DT Configurator      |             |                                                                                                              |                 |  |          |      |
|  | document type       | datasheet            |             |                                                                                                              | document status |                                                                                       |          |      |
|                                                                                    |                     |                      |             |                                                                                                              | released        |                                                                                       |          |      |
|                                                                                    | title               | 1LE1603-2AC43-4AB4-Z |             |                                                                                                              | document number |                                                                                       |          |      |
|                                                                                    |                     |                      |             |                                                                                                              |                 |                                                                                       |          |      |
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|                                                                                    |                     |                      |             |                                                                                                              | 943             | 2023-06-26                                                                            | en       | 1/2  |



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## Special design

|     |                                                                   |     |                               |
|-----|-------------------------------------------------------------------|-----|-------------------------------|
| H01 | Bolted on mounting feet (instead of cast)                         | R52 | Drilled removable entry plate |
| L19 | Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A |     |                               |

Notes:

|                                                                                    |                      |                 |             |                                                                                                              |               |                                                                                       |      |
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| DI MC LVM                                                                          |                      | DT Configurator |             |                                                                                                              |               |  |      |
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|                                                                                    | 1LE1603-2AC43-4AB4-Z |                 |             |                                                                                                              |               |                                                                                       |      |
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