

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



Motor type : 1CV3352C

SIMOTICS SD - 355 L - IM B3 - 6p

|                  |                 |           |
|------------------|-----------------|-----------|
| 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                                                  | Δ     | 50   | 315.00   | -/-  | 580.00 | 993     | 3050.0 | 95.8            | 95.8                                             | 95.3         | 0.82               | 0.77                   | 0.66 | 7.8                            | 2.9                            | 3.2                            | IE3   |  |
| 690                                                  | Y     | 50   | 315.00   | -/-  | 335.00 | 993     | 3050.0 | 95.8            | 95.8                                             | 95.3         | 0.82               | 0.77                   | 0.66 | 7.8                            | 2.9                            | 3.2                            | IE3   |  |
| 460                                                  | Δ     | 60   | 315.00   | -/-  | 500.00 | 1194    | 2500.0 | 95.8            | 95.7                                             | 95.0         | 0.82               | 0.77                   | 0.65 | 9.2                            | 3.2                            | 3.6                            | IE3   |  |
| 460                                                  | Δ     | 60   | 380.00   | -/-  | 590.00 | 1192    | 3050.0 | 95.8            | 95.9                                             | 95.5         | 0.84               | 0.80                   | 0.70 | 8.2                            | 2.6                            | 3.0                            | IE3   |  |
|                                                      |       |      |          |      |        |         |        |                 |                                                  |              |                    |                        |      |                                |                                |                                |       |  |
| IM B3 / IM1001                                       |       |      | FS 355 L |      |        |         | IP55   | UKCA            |                                                  | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |  |
| Environmental conditions : -20 °C - +40 °C / 1,000 m |       |      |          |      |        |         |        |                 | Locked rotor time (hot / cold) : 35.3 s   54.7 s |              |                    |                        |      |                                |                                |                                |       |  |

Mechanical data

|                                                                                     |                                |                                |                            |                                               |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------|-----------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 75 / 90 dB(A) <sup>2) 3)</sup> | 78 / 94 dB(A) <sup>2) 3)</sup> | Condensate drainage holes  | (Standard) Yes                                |
| Moment of inertia                                                                   | 11.6000 kg m <sup>2</sup>      |                                | External earthing terminal | (Standard) Yes                                |
| Bearing DE   NDE                                                                    | 6320 C4                        | 6320 C4                        | Vibration severity grade   | Grade A                                       |
| permissible lateral force on (N) (N)                                                | X <sub>0</sub> : 11200         | X <sub>0.5</sub> : 10500       | Thermal class              | F                                             |
| 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                                 |
| Relubrication interval/quantity DE   NDE                                            | 60 g   60 g                    | 6000 h                         | Frame material             | cast iron                                     |
| Lubricants                                                                          | UNIREX N3                      |                                | Net weight of the motor    | 2040 kg                                       |
| Regreasing device                                                                   | -/-                            |                                | Coating (paint finish)     | Special paint finish C3                       |
| Grease nipple                                                                       | -/-                            |                                | Color, paint shade         | RAL7030                                       |
| Type of bearing                                                                     | Locating bearing DE            |                                | Motor protection           | 2 temperature sensors KTY84-130 (4 terminals) |
| Bearing insulation DE / Bearing insulation NDE                                      | Yes (Non-drive end)            |                                | Method of cooling          | IC416 - separately ventilated, surface cooled |

Terminal box

|                          |                                    |                                |                     |
|--------------------------|------------------------------------|--------------------------------|---------------------|
| Terminal box position    | box at the angle 45°, socket right | Max. cross-sectional area      | 300 mm <sup>2</sup> |
| Material of terminal box | cast iron                          | Cable diameter from ... to ... | 63 mm - 70 mm       |
| Type of terminal box     | TB3R01                             | Cable entry                    | 2xM80x2 - 2xM20x1,5 |
| Contact screw thread     | 6xM16                              | Cable gland                    | -/-                 |

Notes:

|                                                                         |                                                       |                                                                  |
|-------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------|
| I <sub>A</sub> /I <sub>N</sub> = locked rotor current / current nominal | 1) L <sub>10mh</sub> according to DIN ISO 281 10/2010 | 3) Value is valid only for DOL operation with motor design IC411 |
| M <sub>A</sub> /M <sub>N</sub> = locked rotor torque / torque nominal   | 2) at rated power / at full load                      |                                                                  |
| M <sub>K</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>                                                        |      |  |
| IN LVM                                                                             |                     | SPC                  |             |                                                                                                              |                 |  |      |  |
|  | document type       | datasheet            |             |                                                                                                              | document status |                                                                                       |      |  |
|                                                                                    |                     |                      |             |                                                                                                              | released        |                                                                                       |      |  |
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|                                                                                    |                     |                      |             | 951                                                                                                          | 2023-12-14      | en                                                                                    | 1/2  |  |

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|     |                                                  |     |                                                   |
|-----|--------------------------------------------------|-----|---------------------------------------------------|
| B02 | Acceptance test certificate 3.1 acc. to EN 10204 | L51 | Bearing insulation NDE                            |
| F70 | Mounting of separately driven fan                | Q02 | Anti-condensation heating for 230 V (2 terminals) |
| G06 | Mounting a rotary pulse encoder HOG 10 D 1024 I  |     |                                                   |

Space heaters

|                 |                     |
|-----------------|---------------------|
| Technical data: | 1-phase, 230V, 218W |
|-----------------|---------------------|

|                                                                                    |                               |                             |                             |                                                                                                              |                                                                                       |                                |  |
|------------------------------------------------------------------------------------|-------------------------------|-----------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------|--|
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|  | document type<br>datasheet    | document status<br>released |                             |                                                                                                              |  |                                |  |
|                                                                                    | title<br>1LE5603-3BC23-4AG3-Z |                             |                             |                                                                                                              |                                                                                       |                                |  |
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