

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

Motor type: 7CV3131C SIMOTICS SD - 132S - IM B3 - 6 p

|                  |                 |           |
|------------------|-----------------|-----------|
| 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       | 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]±10%  |       | [Hz]±5% | [kW]    | [hp] | [A]   | [1/min] | [kgf.m] | [Nm] | 4/4                    | 3/4  | 2/4  | 4/4                | 3/4  | 2/4  |                                |                                |                                |       |  |
| Motordaten / Motor Data                              |       |         |         |      |       |         |         |      |                        |  |      |                    |      |      |                                |                                |                                |       |  |
| 415  | Δ     | 50      | 3.70    | -/-  | 7.90  | 962     | 4.0     | 37.0 | 86.8                   | 87.5   | 86.5 | 0.75               | 0.68 | 0.56 | 5.0                            | 2.6                            | 3.0                            | IE3   |  |
|  |       |         |         |      |       |         |         |      |                        |  |      |                    |      |      |                                |                                |                                |       |  |
|  |       |         |         |      |       |         |         |      |                        |  |      |                    |      |      |                                |                                |                                |       |  |
|  |       |         |         |      |       |         |         |      |                        |  |      |                    |      |      |                                |                                |                                |       |  |
| IM B3 / IM 1001                                      |       |         | FS 132S |      | 66 kg |         | SF:1    |      | IS 12615 / IEC 60034-1 |  |      | -                  |      |      |                                |                                |                                |       |  |
| Environmental conditions : -20 °C - +50 °C / 1,000 m |       |         |         |      |       |         |         |      |                        | Locked rotor time (hot / cold) : 18 s   26 s |      |                    |      |      |                                |                                |                                |       |  |

Mechanical data

|   |  |                                   |   |
|---|--|-----------------------------------|---|
| Sound pressure level 50Hz   60Hz  | 64 dB(A)   67 dB(A)                                  | External earthing terminal        | Yes (standard)                          |
| Moment of inertia   Rotor GD <sup>2</sup>   | 0.0239 kg m <sup>2</sup>   0.0955 kgf.m <sup>2</sup> | Vibration severity grade          | A (Standard)                            |
| Bearing DE   NDE  | 6208 2ZC3   6208 2ZC3                                | Insulation                        | 155(F) utilized to 130(B)               |
| bearing lifetime  |  | Duty type                         | S1                                      |
| L <sub>10mh</sub> F <sub>Rad max</sub> according catalogue 50 60Hz <sup>1)</sup>    | 20,000 h   16,000 h                                  | Direction of rotation             | Bidirectional                           |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup> | 50,000 h   40,000 h                                  | Frame material                    | Cast iron                               |
| Type of bearing   | Locating (fixed) bearing, NDE                        | Forced ventilation motor details  | - / -                                   |
| Relubrication interval/quantity DE   NDE  | -/- g   -/- g<br>-/- h                               | Net weight of the motor (IM B3)   | 66 kg                                   |
| Type of construction  | IM B3 / IM 1001                                      | Rotor weight                      | 14 kg                                   |
| Degree of protection  | IP55   | Data of anti condensation heating | -/- V, -/- W                            |
| Lubricants  | Esso Unirex N3                                       | Coating (paint finish)            | Standard paint finish                   |
| Regreasing device   | - / -  | Color, paint shade                | RAL7030                                 |
| Grease nipple   | -/-  | Motor protection                  | (A) without                             |
| Condensate drainage holes   | Yes  | Method of cooling                 | IC411 - Self ventilated, surface cooled |

Terminal box

|                           |                    |                                |                   |
|---------------------------|--------------------|--------------------------------|-------------------|
| Terminal box position     | Top                | Cable diameter from ... to ... | 11.0 mm - 21.0 mm |
| Material of terminal box  | Aluminium          | Cable entry                    | 2xM32x1.5         |
| Type of terminal box      | TB1 H04            | Cable gland                    | 2 Plugs           |
| Contact screw thread      | M5                 |                                |                   |
| Max. cross-sectional area | 10 mm <sup>2</sup> |                                |                   |

|   |  |  |  |
|---|--|--|--|
| <b>Notes:</b>   |  |  |  |
| I <sub>A</sub> /I <sub>N</sub> = locked rotor current / current nominal<br>M <sub>A</sub> /M <sub>N</sub> = locked rotor torque / torque nominal<br>M <sub>K</sub> /M <sub>N</sub> = break down torque / nominal torque |  |  |  |
| 3) Efficiency value is valid only for sinusoidal line supply operation.   |  |  |  |
| 1) L <sub>10mh</sub> according to DIN ISO 281 10/2010   |  |  |  |

|                                  |   |                   |             |  |                             |                                |   |             |
|----------------------------------|---|-------------------|-------------|--|-----------------------------|--------------------------------|---|-------------|
| Responsible department<br>IN LVM | Technical reference                       | Created by<br>SPC | 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                |                   |             | CE   | Document status<br>Released |                                |  |             |
|                                  | MLFB and Order Code<br>1LE7503-1CC13-5AA4 |                   |             |  | Document number             |                                |   |             |
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|                                  |   |                   |             |  |                             |                                |   |             |