



**SIMOTICS SD - 160 M - IM B5 - 2p**

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

| Remarks |
|---------|
|---------|

## 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> |       |
|                 |       |      |          |      |        |         |      |                 |      |              |                    |                        |      |                                |                                |                                |       |
| 440             | Δ     | 60   | 15.00    | -/-  | 25.00  | 3565    | 40.0 | 91.0            | 90.0 | 87.6         | 0.86               | 0.82                   | 0.73 | 9.7                            | 3.1                            | 4.8                            | IE3   |
| IM B5 / IM 3001 |       |      | FS 160 M |      | 110 kg |         | IP55 |                 |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |                                |                                |                                |       |

Locked rotor time (hot / cold) : 12.8 s | 19.9 s

|                                                                                        |                                 |                                 |                            |                                         |
|----------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                   | 70.0 / 82.0 dB(A) <sup>2)</sup> | 77.0 / 89.0 dB(A) <sup>2)</sup> | External earthing terminal | No                                      |
| Moment of inertia                                                                      | 0.0610 kg m <sup>2</sup>        |                                 | Vibration severity grade   | A                                       |
| Bearing DE   NDE                                                                       | 6209 2Z C3                      | 6209 2Z C3                      | Insulation                 | 155(F) to 130(B)                        |
| bearing lifetime                                                                       |                                 |                                 | Duty type                  | S1                                      |
| L <sub>10mh</sub> F <sub>Rad min</sub><br>50 60Hz <sup>1)</sup> for coupling operation | 40000 h                         | 32000 h                         | Direction of rotation      | bidirectional                           |
| Lubricants                                                                             | Unirex N3                       |                                 | Frame material             | cast iron                               |
| Regreasing device                                                                      | No                              |                                 | Coating (paint finish)     | Standard paint finish C2                |
| Grease nipple                                                                          | -/-                             |                                 | Color, paint shade         | RAL7030                                 |
| Type of bearing                                                                        | Locating bearing NDE            |                                 | Motor protection           | (A) without (Standard)                  |
| Condensate drainage holes                                                              | Yes (standard)                  |                                 | Method of cooling          | IC411 - self ventilated, surface cooled |

|                          |           |                                |                   |
|--------------------------|-----------|--------------------------------|-------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 16.0 mm²          |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 19.0 mm - 28.0 mm |
| Type of terminal box     | TB1 J01   | Cable entry                    | 2xM40x1,5         |
| Contact screw thread     | M5        | Cable gland                    | 2 plugs           |

Notes:

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

1) L10mh 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

|                                                                                    |                             |                               |             |                                                                                                              |                                   |                |             |
|------------------------------------------------------------------------------------|-----------------------------|-------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------|-------------|
| 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. |                                   |                |             |
|  | document type<br>datasheet  |                               |             | document status<br>released                                                                                  |                                   | customer       |             |
|                                                                                    | title<br>1LE1503-1DA39-0FA4 |                               |             | document number                                                                                              |                                   |                |             |
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## Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV3163A

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### Special design

M2D 440 VD for 60 Hz, 50-Hz power

### Notes:

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