

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



Motor type : 1CV2252B INNOMOTICS SD - 250 M - IM B3 - 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                                                 | Δ     | 50       | 55.00 | -/-  | 100.00 | 1480    | 355.0 | 93.5            | 93.9                                             | 93.5                   | 0.85               | 0.81 | 0.72 | 6.8                            | 2.7                            | 3.0                            | IE2   |
| 690                                                 | Y     | 50       | 55.00 | -/-  | 58.00  | 1480    | 355.0 | 93.5            | 93.9                                             | 93.5                   | 0.85               | 0.81 | 0.72 | 6.8                            | 2.7                            | 3.0                            | IE2   |
| 460                                                 | Δ     | 60       | 63.00 | -/-  | 99.00  | 1780    | 340.0 | 94.1            | 94.4                                             | 94.0                   | 0.85               | 0.82 | 0.74 | 6.6                            | 2.8                            | 2.9                            | IE2   |
| 460                                                 | Δ     | 60       | 55.00 | -/-  | 87.00  | 1785    | 295.0 | 94.1            | 94.1                                             | 93.3                   | 0.84               | 0.80 | 0.71 | 7.3                            | 3.1                            | 3.3                            | IE2   |
| IM B3 / IM 1001                                     |       | FS 250 M |       |      |        | IP55    | UKCA  | IEC/EN 60034    |                                                  | IEC, DIN, ISO, VDE, EN |                    |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1000 m |       |          |       |      |        |         |       |                 | Locked rotor time (hot / cold) : 20.2 s   34.5 s |                        |                    |      |      |                                |                                |                                |       |

| Mechanical data                                                                     |                                |                                |                                 |                                                    |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 66 / 79 dB(A) <sup>2) 3)</sup> | 69 / 83 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                  |
| Moment of inertia                                                                   | 0.7500 kg m²                   |                                | Thermal class                   | F                                                  |
| Bearing DE   NDE                                                                    | 6215 Z C3                      | 6215 Z C3                      | Duty type                       | S1                                                 |
| bearing lifetime                                                                    |                                |                                | Direction of rotation           | bidirectional                                      |
| L <sub>10mh</sub> F <sub>Rad min</sub> 50 60Hz <sup>1)</sup> for coupling operation | 40000 h                        | 32000 h                        | Frame material                  | cast iron                                          |
| Regreasing device                                                                   | Without                        |                                | Net weight of the motor (IM B3) | 385 kg                                             |
| Grease nipple                                                                       | -/-                            |                                | Coating (paint finish)          | Standard paint finish C2                           |
| Type of bearing                                                                     | Locating bearing NDE           |                                | Color, paint shade              | RAL7030                                            |
| Condensate drainage holes                                                           | With (standard)                |                                | Motor protection                | (B) 3 PTC thermistors - for tripping (2 terminals) |
| External earthing terminal                                                          | With (standard)                |                                | Method of cooling               | IC411 - self ventilated, surface cooled            |

|                          |  |  |           |  |  |                                |  |  |                     |  |  |  |  |  |  |  |  |
|--------------------------|--|--|-----------|--|--|--------------------------------|--|--|---------------------|--|--|--|--|--|--|--|--|
| Terminal box             |  |  |           |  |  |                                |  |  |                     |  |  |  |  |  |  |  |  |
| Terminal box position    |  |  | top       |  |  | Max. cross-sectional area      |  |  | 120 mm <sup>2</sup> |  |  |  |  |  |  |  |  |
| Material of terminal box |  |  | cast iron |  |  | Cable diameter from ... to ... |  |  | 34 mm - 42 mm       |  |  |  |  |  |  |  |  |
| Type of terminal box     |  |  | TB1 N01   |  |  | Cable entry                    |  |  | 2xM63x1,5-2xM20x1,5 |  |  |  |  |  |  |  |  |
| Contact screw thread     |  |  | M10       |  |  | Cable gland                    |  |  | 4 plugs             |  |  |  |  |  |  |  |  |

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

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|----------------------------------|----------------------------------------|-------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
| Responsible department<br>IN LVM | Technical reference                    | Created by<br>SPC | Approved by<br>Created automatically | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |                             | <a href="#">Link documents</a>                                                        |             |
| INNOMOTICS                       | Document type<br>Technical data sheet  |                   |                                      | Document status<br>Released                                                                                  |                             |  |             |
|                                  | Document title<br>1LE1501-2CB23-4AB4-Z |                   |                                      | Document number<br>TDS-240905-131215                                                                         |                             |                                                                                       |             |
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## Special design

D22

Motor without CE character for export outside the EEA (see EU regulation 2019/1781)

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