

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

Motor type: 7CV3314B INNOMOTICS SD - 315L - IM B3 - 4 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 ³⁾ | | | cosφ ³⁾ | | | I _A /I _N | M _A /M _N | M _K /M _N | 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 | 160.00 | -/- | 267.00 | 1489 | 105.0 | 1026.0 | 95.9 | 96.1 | 95.8 | 0.87 | 0.85 | 0.78 | 7.7 | 3.0 | 3.2 | IE3 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| IM B3 / IM 1001 | | | FS 315L | | 1028 kg | | SF:1 | | IS 12615 / IEC 60034-1 | | | - | | | | | | | |
| Environmental conditions : -20 °C - +50 °C / 1,000 m | | | | | | | | | | Locked rotor time (hot / cold) : 15 s 25 s | | | | | | | | | |


Mechanical data

| | | | | |
|---|---|----------|-----------------------------------|---|
| Sound pressure level 50Hz 60Hz | 80 dB(A) | 83 dB(A) | External earthing terminal | Yes (standard) |
| Moment of inertia Rotor GD ² | 3.4367 kg m ² 13.7469 kgf.m ² | | Vibration severity grade | A (Standard) |
| Bearing DE NDE | 6319 C3 | 6319 C3 | Insulation | 155(F) utilized to 130(B) |
| bearing lifetime | | | Duty type | S1 |
| L _{10mh} F _{Rad max} according catalogue 50 60Hz ¹⁾ | 20,000 h | 16,000 h | Direction of rotation | Bidirectional |
| L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾ | 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 | 40 g 40 g 6,000 h | | Net weight of the motor (IM B3) | 1028 kg |
| Type of construction | IM B3 / IM 1001 | | Rotor weight | 305 kg |
| Degree of protection | IP55 | | Data of anti condensation heating | -/- V, -/- W |
| Lubricants | Esso Unirex N3 | | Coating (paint finish) | Standard paint finish |
| Regreasing device | Yes (standard) | | Color, paint shade | RAL7030 |
| Grease nipple | M10x1 DIN 71412 A | | 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 ... | 38.0 mm - 45.0 mm |
| Material of terminal box | Cast iron | Cable entry | 2xM63x1.5 |
| Type of terminal box | TB1 Q01 | Cable gland | 2 Plugs |
| Contact screw thread | M12 | | |
| Max. cross-sectional area | 185 mm ² | | |

| | | | |
|---|--|--|--|
| Notes: | | | |
| I _A /I _N = locked rotor current / current nominal | | | |
| M _K /M _N = locked rotor torque / torque nominal | | | |
| M _K /M _N = break down torque / nominal torque | | | |
| 1) L _{10mh} according to DIN ISO 281 10/2010 | | | |
| 3) Efficiency value is valid only for sinusoidal line supply operation. | | | |
| Motor is Suitable for Impulse voltage insulation class of IVIC-C as per IEC 60034-18-41 | | | |

| | | | | | | | |
|------------------------|---------------------|------------|-------------|--|---------------|---|------|
| Responsible department | Technical reference | Created by | Approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. | | Link documents | |
| IN LVM | | SPC | | | |  | |
| INNOMOTICS | Document type | | | Document status | | | |
| | Datasheet | | | Released | | | |
| | MLFB and Order Code | | | Document number | | | |
| | 1LE7503-3AB43-5AA4 | | | | | | |
| © INNOMOTICS 2024 | | | | Revision | Creation date | Language | Page |
| | | | | 01 | 2024-11-16 | en | 1/1 |