

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



Motor type : 1CV2222C

SIMOTICS SD - 225 M - IM B3 - 6p

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

Remarks

Electrical data

Safe Area

| U [V] | Δ / Y | f [Hz] | P [kW] | P [hp] | I [A] | n [1/min] | M [Nm] | η ³⁾ | | | $\cos\phi$ ³⁾ | | | I_A/I_N I_i/I_N | M_A/M_N T_i/T_N | M_k/M_N T_B/T_N | IE-CL |
|----------|--------------|-----------|-----------|-----------|----------|--------------|-----------|----------------------|------|------|--------------------------|------|------|------------------------|------------------------|------------------------|-------|
| | | | | | | | | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | | | | |
| 400 | Δ | 50 | 30.00 | -/- | 57.00 | 980 | 290.0 | 91.7 | 92.5 | 92.3 | 0.83 | 0.79 | 0.70 | 5.6 | 2.5 | 2.7 | IE2 |
| 690 | Y | 50 | 30.00 | -/- | 33.00 | 980 | 290.0 | 91.7 | 92.5 | 92.3 | 0.83 | 0.79 | 0.70 | 5.6 | 2.5 | 2.7 | IE2 |
| 460 | Δ | 60 | 36.00 | -/- | 59.00 | 1175 | 295.0 | 91.7 | 92.5 | 92.5 | 0.84 | 0.81 | 0.73 | 5.7 | 2.3 | 2.5 | IE1 |
| 460 | Δ | 60 | 30.00 | -/- | 49.00 | 1182 | 240.0 | 93.0 | 93.3 | 92.6 | 0.83 | 0.79 | 0.69 | 7.0 | 2.9 | 3.1 | IE2 |

| | | | | | |
|-----------------|----------|--------|------|--------------|------------------------|
| IM B3 / IM 1001 | FS 225 M | 300 kg | IP55 | IEC/EN 60034 | IEC, DIN, ISO, VDE, EN |
|-----------------|----------|--------|------|--------------|------------------------|

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 25.7 s | 40.7 s

Mechanical data

| | | | | |
|---|---------------------------------|---------------------------------|----------------------------|---|
| Sound level (SPL / SWL) at 50Hz 60Hz | 65.0 / 78.0 dB(A) ²⁾ | 66.0 / 79.0 dB(A) ²⁾ | External earthing terminal | Yes (standard) |
| Moment of inertia | 0.5800 kg m ² | | Vibration severity grade | A |
| Bearing DE NDE | 6213 Z C3 | 6213 Z C3 | Insulation | 155(F) to 130(B) |
| bearing lifetime | | | Duty type | S1 |
| L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾ | 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

| | | | |
|--------------------------|-----------|--------------------------------|----------------------|
| Terminal box position | top | Max. cross-sectional area | 35.0 mm ² |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 27.0 mm - 35.0 mm |
| Type of terminal box | TB1 L01 | Cable entry | 2xM50x1,5-2xM20x1,5 |
| Contact screw thread | M8 | Cable gland | 4 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. DI MC LVM | technical reference | created by DT Configurator | approved by | <i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i> |
|-------------------------------|---------------------|-------------------------------|-------------|---|

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|--|--------------------------------------|-----------------------------|------------|-----------------------------------|
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Special design

Q02 Anti-condensation heating for 230 V (2 terminals)

Additional information:

Space heaters

Technical data: 1-phase, 230 V 92W

Notes:

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