

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



Motor type : 1CV4220B

SIMOTICS SD - 225 S - IM B3 - 4p

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	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
380	Δ	50	37.00	-/-	70.00	1485	240.0	95.2	95.5	95.2	0.84	0.80	0.70	8.4	3.2	3.2	IE4
660	Y	50	37.00	-/-	40.50	1485	240.0	95.2	95.5	95.2	0.84	0.80	0.70	8.4	3.2	3.2	IE4
440	Δ	60	42.50	-/-	69.00	1782	230.0	95.4	95.6	95.3	0.85	0.81	0.72	8.5	3.1	3.1	IE4
440	Δ	60	37.00	-/-	61.00	1786	198.0	95.4	95.4	94.8	0.83	0.78	0.68	9.8	3.6	3.6	IE4
IM B3 / IM 1001		FS 225 S		345 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 35.2 s | 46.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69.0 / 82.0 dB(A) ²⁾	69.0 / 81.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.5200 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} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
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	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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Special design

B02 Acceptance test certificate 3.1 acc. to EN 10204 S03 Special paint finish in sea air resistant C4

Notes:

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