

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



Motor type : 1CV3220B

SIMOTICS SD - 225 S - IM B35 - 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	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	34.04	-/-	61.00	1475	220.4	94.1	94.5	94.3	0.85	0.81	0.71	7.0	2.7	2.9	IE3
690	Y	50	34.04	-/-	35.50	1475	220.4	94.1	94.5	94.3	0.85	0.81	0.71	7.0	2.7	2.9	IE3
460	Δ	60	39.10	-/-	62.00	1775	210.4	93.8	94.1	93.8	0.85	0.81	0.72	7.3	2.6	2.9	IE2
460	Δ	60	37.00	-/-	58.00	1782	198.0	94.5	94.7	94.2	0.85	0.81	0.71	7.5	2.8	3.0	IE3
IM B35 / IM 2001		FS 225 S				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +50 °C / 1000 m									Locked rotor time (hot / cold) : 36.5 s 55.3 s								
These values are calculated. The final rating plate data will be calculated when the order is placed																	
The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.																	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 78 dB(A) ^{2) 3)}	68 / 82 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.4200 kg m²		Thermal class	F
Bearing DE NDE	6213 Z C3	6213 Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	285 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	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	35 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread	M8	Cable gland	4 plugs

Notes:		
I_L/I_N = locked rotor current / current nominal	1) L_{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_L/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. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 	
SIEMENS	document type datasheet			document status released			
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Special design

F70	Mounting of separately driven fan	N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced
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