

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



Motor type: 1CV2220B

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 [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	37.00	-/-	65.00	1470	240.0	92.7	93.5	93.5	0.88	0.85	0.78	6.6	2.3	2.9	IE2
690	Y	50	37.00	-/-	38.00	1470	240.0	92.7	93.5	93.5	0.88	0.85	0.78	6.6	2.3	2.9	IE2
460	Δ	60	42.50	-/-	65.00	1770	229.0	93.6	94.2	94.0	0.88	0.86	0.79	6.6	2.3	2.9	IE2
460	Δ	60	37.00	-/-	57.00	1778	199.0	93.0	93.2	92.5	0.87	0.84	0.76	7.2	2.7	3.3	IE2
IM B3 / IM 1001		FS 225 S		280 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Mechanical data


Sound level (SPL / SWL) at 50Hz 60Hz	66.0 / 79.0 dB(A) ²⁾	69.0 / 82.0 dB(A) ²⁾	Condensate drainage holes	Yes (standard) -/-
Moment of inertia	0.4200 kg m ²		External earthing terminal	Yes (standard) -/-
Bearing DE NDE	NU 213	6213 Z C3	Vibration severity grade	A
bearing lifetime			Insulation	155(F) to 130(B)
L _{10mh} F _{Rad,max} acc. catalogue 50 60Hz ¹⁾	20000 h	16000 h	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)
			Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Material of terminal box	cast iron	Cable entry	2xM50x1,5
Type of terminal box	TB1 L01	Cable gland	2 plugs -/-
Contact screw thread	M8		
Max. cross-sectional area	35.0 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) 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

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Special design

L22 Bearing design for increased cantilever forces

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