

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



Motor type : 1CV2090D

SIMOTICS SD - 90 S - IM B3 - 8p

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				
230	Δ	50	0.37	-/-	2.35	675	5.2	56.1	55.6	49.6	0.71	0.60	0.47	2.6	1.4	1.7	IE2
400	Y	50	0.37	-/-	1.34	675	5.2	56.1	55.6	49.6	0.71	0.60	0.47	2.6	1.4	1.7	IE2
460	Y	60	0.43	-/-	1.33	830	5.0	58.0	57.5	52.5	0.70	0.59	0.46	2.9	1.4	1.8	IE2
460	Y	60	0.37	-/-	1.25	845	4.2	58.0	55.8	49.5	0.64	0.54	0.42	3.0	1.6	2.1	IE2

IM B3 / IM 1001 FS 90 S 20 kg IP55 IEC/EN 60034 IEC, DIN, ISO, VDE, EN
 Environmental conditions : -20 °C - +40 °C / 1,000 m Locked rotor time (hot / cold) : 43.2 s | 67.4 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	53.0 / 65.0 dB(A) ²⁾	57.0 / 69.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0022 kg m ²		Vibration severity grade	A
Bearing DE NDE	6205 2Z C3	6204 2Z 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	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 D01	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

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

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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