

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



Motor type : 1CV3407B

SIMOTICS SD Pro - 400 - 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	
DOL duty (S1) - 155(F) to 155(F)																	
690	Δ	50	690.00	-/-	680.00	1492	4400.0	96.4	96.5	96.2	0.88	0.84	0.77	7.0	2.0	2.7	IE3
IM B3 / IM1001 ₄₎		SF:	FS 400		IP55		UKCA		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-Part 20						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 2.6 s 5.74 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	78 / 94 dB(A) ³⁾	- / - dB(A) ³⁾	Condensate drainage holes	(Standard) Yes
Moment of inertia	16.5000 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	DIN625-6224-C3	DIN625-6224-C3	Vibration severity grade	Grade A
permissible lateral force on (N)	X ₀ : 6830	X _{0.5} : N/A	Thermal class	F
		X _{max} : 5870	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	-/-	Frame material	cast iron
Relubrication interval/quantity DE NDE	40 g 40 g	6000 h	Net weight of the motor	3200 kg
Lubricants	SHELL GADUS S2 V100 3		Coating (paint finish)	Standard paint finish C2
Regreasing device	-/-		Color, paint shade	RAL7030
Grease nipple	-/-		Motor protection	without (Standard)
Type of bearing	Locating bearing DE		Method of cooling	IC411 - self ventilated, surface cooled
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)			

Terminal box

Terminal box position	box at the top, socket left	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	56 mm - 64.5 mm
Type of terminal box	TB3R61	Cable entry	4xM80x2 - 2xM25x1,5
Contact screw thread	12xM16	Cable gland	6 plugs

Notes:			
I _A /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 _A /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	4) For IM B5 design additionally support foot (not scope of delivery) is required	
M _K /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.		Link documents	
IN LVM		SPC					
SIEMENS	document type				document status		
	datasheet				released		
	title				document number		
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Special design

L51 Bearing insulation NDE

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