

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



Motor type : 1CV3403B

SIMOTICS SD Pro - 400 - IM B3 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Safe Area

-/-

Electrical data

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)																	
400	Δ	50	545.00	-/-	940.00	1492	3500.0	96.1	96.2	95.7	0.87	0.84	0.76	6.7	1.8	2.7	IE3
690	Y	50	545.00	-/-	550.00	1492	3500.0	96.1	96.2	95.7	0.87	0.84	0.76	6.7	1.8	2.7	IE3
460	Δ	60	545.00	-/-	830.00	1793	2900.0	96.2	95.9	94.7	0.86	0.82	0.73	7.3	2.0	3.0	IE3
460	Δ	60	625.00	-/-	930.00	1791	3350.0	96.3	96.2	95.4	0.88	0.85	0.78	6.5	1.7	2.6	IE3
460	Δ	60		700	790.00	1793	2800.0	96.2	95.8	94.5	0.86	0.82	0.73	7.7	2.0	3.1	MG1
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) : 3.78 s 4.28 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	78 / 94 dB(A) ³⁾	82 / 98 dB(A) ³⁾	Condensate drainage holes	(Standard) Yes
Moment of inertia	12.8000 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) (N)	X ₀ : 6830	X _{0.5} : N/A	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Frame material	cast iron
Lubricants	SHELL GADUS S2 V100 3		Net weight of the motor	2800 kg
Regreasing device	-/-		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	6 resistance thermometers PT100 (12 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the angle 45°, socket right	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 _K /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 _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 		
	document type datasheet				document status released			
	title 1LE5583-4AB33-4AJ3-Z				document number			
© INNOMOTICS 2023	L51+Q02+R63				rev. 951	creation date 2023-12-14	language en	Page 1/2

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



Motor type : 1CV3403B

SIMOTICS SD Pro - 400 - IM B3 - 4p

Special design

L51	Bearing insulation NDE	R63	Cast iron auxiliary terminal box (big)
Q02	Anti-condensation heating for 230 V (2 terminals)		

Additional information:

Space heaters

Technical data: 1-phase, 230V, 240W

Notes:

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 	
	document type datasheet			document status released			
	title 1LE5583-4AB33-4AJ3-Z			document number			
© INNOMOTICS 2023	L51+Q02+R63			rev. 951	creation date 2023-12-14	language en	Page 2/2