

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



Motor type : 1CD3312D

SIMOTICS XP - 315 M - IM B3 - 8p

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

Remarks **II 2G Ex db eb IIC T4 Gb**

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cos φ 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				
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	75.00	-/-	145.00	742	970.0	93.1	93.3	92.8	0.80	0.75	0.65	6.3	2.5	2.6	IE3
690	Y	50	75.00	-/-	84.00	742	970.0	93.1	93.3	92.8	0.80	0.75	0.65	6.3	2.5	2.6	IE3
460	Δ	60	75.00	-/-	127.00	894	800.0	93.6	93.5	92.7	0.79	0.74	0.63	7.2	2.8	2.9	IE3

Converter duty (S9) - 155(F) to 130(B)																	
40	Δ	5	4.6		106	70	633.0				0.78	Type of converter Voltage source converter, general. (utilized to B)					
200	Δ	25	32.5		129	368	844.0			0.79							
400	Δ	50	70		135	743	895.0			0.80							
400	Δ	65	70		130	965	692.0			0.81							

IM B3 / IM1001	FS 315 M	IP65	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 40 s | 60 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 84 dB(A) ^{2) 3)}	69 / 84 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	3.1500 kg m ²		Vibration severity grade	Grade A	
Bearing DE NDE	6319 C3	6319 C3 INS	Thermal class	F	
permissible lateral force on (N)	X ₀ : 9210	X _{0,5} : 5700	X _{max} : 4120	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional	
L _{10mh} F _{Rad} min 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	cast iron	
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Net weight of the motor	1090 kg	
Lubricants	UNIREX N3		Motor weight incl. options	1090 kg	
Regreasing device	Flat type lubricating nipple		Coating (paint finish)	Standard paint finish C2	
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030	
Type of bearing	Locating bearing DE		Motor protection	6 PTC thermistors - for alarm and tripping (4 terminals)	
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled	
Condensate drainage holes	No				

Terminal box

Terminal box position	at the right	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	42 mm - 54 mm
Type of terminal box	TB3Q61	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12		

I_A/I_N = locked rotor current / current nominal
 M_A/M_N = locked rotor torque / torque nominal
 M_K/M_N = break down torque / nominal torque
 1) L_{10mh} 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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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents	
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Special design

B32	Design additional for dust Ex tb – zone 21; IP65	D35	Ex Certificate EAC for Eurasian Customs Union
B43	Version for converter operation with operating data on voltage-source DC link converter	Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings

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