

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



Motor type : 1CD3314B

SIMOTICS XP - 315 L - IM B3 - 4p

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]	$\eta^{3)}$			$\cos\phi^{3)}$			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					
DOL duty (S1) - 155(F) to 130(B)																		
400	Δ	50	160.00	-/-	285.00	1490	1030.0	95.8	95.9	95.6	0.85	0.82	0.74	7.5	2.4	3.0	IE3	
690	Y	50	160.00	-/-	164.00	1490	1030.0	95.8	95.9	95.6	0.85	0.82	0.74	7.5	2.4	3.0	IE3	
460	Δ	60	160.00	-/-	245.00	1792	850.0	96.2	96.1	95.3	0.85	0.81	0.73	8.8	2.7	3.2	IE3	
IM B3 / IM1001			FS 315 L			IP55		IEC/EN 60034			IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 35.7 s 62.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	80 / 94 dB(A) ^{2) 3)}	73 / 88 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	3.1700 kg m ²		Vibration severity grade	Grade A	
Bearing DE NDE	6319 C3	6319 C3	Thermal class	F	
permissible lateral force on (N)	X_0 : 5350	$X_{0.5}$: 4920	X_{max} : 4030	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional	
L_{10mh} $F_{rad, min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron	
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Net weight of the motor	1330 kg	
Lubricants	UNIREX N3		Motor weight incl. options	1330 kg	
Regreasing device	-/-		Coating (paint finish)	Standard paint finish C2	
Grease nipple	-/-		Color, paint shade	RAL7030	
Type of bearing	Locating bearing DE		Motor protection	3 PTC thermistors - for tripping (2 terminals)	
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled	

Terminal box

Terminal box position	box at the top	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		

Notes:

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

responsible dep. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
	document type datasheet	document status released			
	title 1MB5553-3AB43-4AB4	document number			
© INNOMOTICS 2023	rev. 951	creation date 2023-12-15	language en		