

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



Motor type : 1CV3314D

SIMOTICS SD - 315 L - IM B3 - 8p

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	$\eta^{3)}$			$\cos\varphi^{3)}$			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_A/I_N	T_A/T_N	T_B/T_N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	90.00	-/-	168.00	740	1160.0	93.4	94.2	94.3	0.83	0.79	0.70	5.8	2.2	2.5	IE3
690	Y	50	90.00	-/-	97.00	740	1160.0	93.4	94.2	94.3	0.83	0.79	0.70	5.8	2.2	2.5	IE3
IM B3 / IM 1001		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) : 22.2 s | 37.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz/60Hz	/ dB(A) ²⁾	/ dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	3.1000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} η_{min} for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50/60Hz			Frame material	cast iron
Relubrication interval/quantity DE NDE	40 g 40 g	6000 h	Net weight of the motor (IM B3)	860 kg
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC416 - separately ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	Cable gland	4 plugs

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) 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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
DI MC LVM		DT Configurator					
	document type				document status		
	datasheet				released		
	title				document number		
	1LE1603-3AD43-4AF4-Z						
© Siemens AG 2022	B02+F70+G04+L51+Y82				rev.	creation date	language
					01	2022-04-22	en
						Page	1/2

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



Motor type : 1CV3314D

SIMOTICS SD - 315 L - IM B3 - 8p

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L51	Bearing insulation NDE
F70	Mounting of separately driven fan	Y82	Auxiliary name plate with customer data
G04	Mounted rotary pulse encoder LL 861 900 220		

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	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 1LE1603-3AD43-4AF4-Z B02+F70+G04+L51+Y82				document number
© Siemens AG 2022				rev. 01	creation date 2022-04-22
				language en	Page 2/2

