

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



Motor type : 1CV1314C

SIMOTICS SD - 315 L - IM B3 - 6p

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

Remarks

Safe Area

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N I _f /I _N	M _A /M _N T _f /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	110.00	-/-	198.00	988	1060.0	93.3	93.6	93.4	0.86	0.82	0.73	6.8	2.6	2.8	IE1
690	Y	50	110.00	-/-	115.00	988	1060.0	93.3	93.6	93.4	0.86	0.82	0.73	6.8	2.6	2.8	IE1
460	Δ	60	132.00	-/-	200.00	1186	1060.0	94.1	94.4	94.2	0.87	0.85	0.76	6.7	2.4	2.6	IE1
IM B3 / IM 1001		FS 315 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 0 s 30.1 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61 / 78 dB(A) ^{2) 3)}	65 / 80 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	3.2000 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 319	6319 C3	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	Unirex N3		Net weight of the motor (IM B3)	880 kg
Regreasing device	With (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	150 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

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

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

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	
	Document type Technical data sheet	Document status Released				
	Document title 1LE1502-3AC43-4AB4-Z	Document number TDS-240716-112609				
Restricted © Innomotics 2024	D22+D47+L22	Revision AA	Creation date 2024-07-16		Language en	Page 1/2

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



Motor type : 1CV1314C

SIMOTICS SD - 315 L - IM B3 - 6p

Special design

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	L22	Bearing design for increased cantilever forces
D47	TR CU product safety certificate EAC for the Eurasian Customs Union		

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

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
	Document type Technical data sheet	Document status Released			
	Document title 1LE1502-3AC43-4AB4-Z	Document number TDS-240716-112609			
Restricted © Innomotics 2024	D22+D47+L22	Revision AA	Creation date 2024-07-16		