

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



Motor type : 1CV2314D

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 [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	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_l/I_N	T_l/T_N	T_B/T_N	
380	Δ	50	90.00	-/-	176.00	740	1160.0	93.5	94.3	94.4	0.83	0.79	0.70	5.8	2.2	2.5	IE2
660	Y	50	90.00	-/-	101.00	740	1160.0	93.5	94.3	94.4	0.83	0.79	0.70	5.8	2.2	2.5	IE2
440	Δ	60	108.00	-/-	182.00	890	1160.0	93.6	94.3	94.4	0.83	0.80	0.71	5.5	2.0	2.4	IE2
440	Δ	60	90.00	-/-	156.00	890	970.0	93.6	93.9	93.6	0.81	0.76	0.66	6.5	2.4	2.8	IE2

IM B3 / IM 1001		FS 315 L	860 kg	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	69.0 / 84.0 dB(A) ²⁾	76.0 / 90.0 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	Insulation	155(F) to 130(B)
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		Coating (paint finish)	Special paint finish C3
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	240.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38.0 mm - 45.0 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.
DI MC LVM		DT Configurator		

	document type	document status	customer	
	datasheet	released		
	title	document number		
	1LE1601-3AD43-3AB4-Z Q11			
© Siemens AG 2021	rev.	creation date	language	Page
	01	2021-04-22 16:56	en	1/2

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



Motor type : 1CV2314D

SIMOTICS SD - 315 L - IM B3 - 8p

Special design

Q11 1/3 PTC thermistors - for tripping (2 terminals)

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.			
	document type datasheet				document status released		customer	
	title 1LE1601-3AD43-3AB4-Z				document number			
© Siemens AG 2021	Q11				rev. 01	creation date 2021-04-22 16:56	language en	Page 2/2