

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



Motor type : 1CV2205B

SIMOTICS SD - 200 L - IM B3 - 4p

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]	η 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_i/I_N	T_i/T_N	T_B/T_N	
230	Δ	50	30.00	-/-	97.00	1470	195.0	92.3	92.9	92.6	0.84	0.80	0.70	6.7	2.5	3.3	IE2
400	Y	50	30.00	-/-	56.00	1470	195.0	92.3	92.9	92.6	0.84	0.80	0.70	6.7	2.5	3.3	IE2
460	Y	60	34.50	-/-	55.00	1770	186.0	93.0	93.5	93.1	0.85	0.81	0.73	7.2	2.7	3.2	IE2
460	Y	60	30.00	-/-	48.00	1778	161.0	93.0	93.1	92.3	0.84	0.79	0.69	8.2	3.2	3.7	IE2

IM B3 / IM 1001		FS 200 L	230 kg	IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN		
-----------------	--	----------	--------	------	--	--------------	------------------------	--	--

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 13.4 s | 24.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75.0 / 79.0 dB(A) ²⁾	75.0 / 79.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.2000 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 212	6212 C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(K) 1 Pt1000 resistance thermometer(2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	25.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread	M6	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		
	1LE1501-2AB52-2AK4-Z			
	F70+G11+L22			
© Siemens AG 2021		rev.	creation date	language Page
		01	2021-04-22 12:08	en 1/2

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



Motor type : 1CV2205B

SIMOTICS SD - 200 L - IM B3 - 4p

Special design

F70	Mounting of separately driven fan	L22	Bearing design for increased cantilever forces
G11	Rotary pulse encoder Sendix 5020 (HTL)		

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 1LE1501-2AB52-2AK4-Z	document number					
© Siemens AG 2021	F70+G11+L22	rev. 01	creation date 2021-04-22 12:08	language en	Page 2/2		