

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



Motor type : 1CV2220B

SIMOTICS SD - 225 S - IM B5 - 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	
400	Δ	50	37.00	-/-	65.00	1470	240.0	92.7	93.5	93.5	0.88	0.85	0.78	6.6	2.3	2.9	IE2
460	Δ	60	42.50	-/-	65.00	1770	230.0	93.6	94.2	94.0	0.88	0.86	0.79	6.6	2.3	2.9	IE2
460	Δ	60	37.00	-/-	57.00	1778	199.0	93.0	93.2	92.5	0.87	0.84	0.76	7.2	2.7	3.3	IE2
IM B5 / IM 3001		FS 225 S		280 kg		IP65		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 16.2 s | 29.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66.0 / 79.0 dB(A) ²⁾	69.0 / 82.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.4200 kg m ²		Vibration severity grade	A
Bearing DE NDE	6313 Z C3	6313 Z 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	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	35.0 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	M8	Cable gland	4 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
 M_K/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. 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 1LE1501-2BB00-4FB4-Z H20+L25			document number				
© Siemens AG 2021				rev. 01	creation date 2021-04-21 16:30	language en	Page 1/2	

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



Motor type : 1CV2220B

SIMOTICS SD - 225 S - IM B5 - 4p

Special design

H20 IP 65 degree of protection L25 Double sides reinforced bearings for DE and NDE, Type 63

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 1LE1501-2BB00-4FB4-Z				document number			
© Siemens AG 2021	H20+L25				rev. 01	creation date 2021-04-21 16:30	language en	Page 2/2