

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



Motor type : 1CV2222B

SIMOTICS SD - 225 M - IM V1 - 4p

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	η ³⁾			$\cos\phi$ 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_i/I_N	T_i/T_N	T_B/T_N	
400	Δ	50	45.00	-/-	80.00	1475	290.0	93.1	93.8	93.7	0.87	0.84	0.76	6.9	2.5	3.1	IE2
690	Y	50	45.00	-/-	46.50	1475	290.0	93.1	93.8	93.7	0.87	0.84	0.76	6.9	2.5	3.1	IE2
460	Δ	60	52.00	-/-	80.00	1775	280.0	94.1	94.7	94.4	0.87	0.85	0.78	6.8	2.5	3.1	IE2
460	Δ	60	45.00	-/-	70.00	1778	240.0	93.6	93.8	93.1	0.86	0.83	0.74	7.6	3.0	3.5	IE2

IM V1 / IM 3011		FS 225 M		IP65		IEC/EN 60034	IEC, DIN, ISO, VDE, EN						
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 14.4 s | 26.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66 / 79 dB(A) ²⁾	69 / 83 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.4600 kg m ²		Vibration severity grade	A
Bearing DE NDE	6313 C3	6313 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
Relubrication interval/quantity DE NDE	20 g 20 g	8000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	305 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (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 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	27 mm - 35 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	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_K/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_K/M_N = break down torque / nominal torque		

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		
	1LE1601-2BB23-4GB4-Z			
	B02+D22+H20			
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		01	2021-10-27 08:42	en 1/2

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B02	Acceptance test certificate 3.1 acc. to EN 10204	H20	IP 65 degree of protection
D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)		

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>
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