

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



Motor type : 1CV2205B

SIMOTICS SD - 200 L - IM V5 - 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⁾			cosφ 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	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	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
690	Y	50	30.00	-/-	32.50	1470	195.0	92.3	92.9	92.6	0.84	0.80	0.70	6.7	2.5	3.3	IE2
460	Δ	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	Δ	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 V5 / IM 1011		FS 200 L				IP65			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 13.8 s 25.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 77 dB(A) ^{2) 3)}	72 / 79 dB(A) ^{2) 3)}	External earthing terminal	Yes (standard)
Moment of inertia	0.2000 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 212	6212 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation 50 60Hz	20000 h	16000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	10 g 15 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	230 kg
Regreasing device	Yes		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 (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	right	Max. cross-sectional area	25 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	M6	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_B/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.		Link documents		
DI MC LVM		DT Configurator						
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	R62	Cast iron auxiliary terminal box (small)
H07	Stainless steel screws and bolts (outside the motor)	S02	Special paint finish C3
H20	IP 65 degree of protection	Y80	Supplementary rating plate with different data
L02	Full-key balancing	Y82	Auxiliary name plate with customer data
L22	Bearing design for increased cantilever forces	Y84	Additional data on the rating plate and on the packing label :
L23	Regreasing system		

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.	Link documents
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