

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



Motor type : 1CV3204A

SIMOTICS SD - 200 L - IM B3 - 2p

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 155(F)																	
230	Δ	50	30.00	-/-	93.00	2955	97.0	93.3	93.5	92.9	0.87	0.84	0.76	7.0	2.5	3.3	IE3
400	Y	50	30.00	-/-	53.00	2955	97.0	93.3	93.5	92.9	0.87	0.84	0.76	7.0	2.5	3.3	IE3
460	Y	60	33.50	-/-	52.00	3555	90.0	93.0	92.8	91.4	0.87	0.84	0.77	7.1	2.5	3.3	IE3
460	Y	60	30.00	-/-	47.00	3560	80.0	92.4	91.9	90.1	0.87	0.84	0.77	8.5	3.0	3.7	IE3
IM B3 / IM 1001		FS 200 L				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +45 °C / 1000 m									Locked rotor time (hot / cold) : 32.2 s 52.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 80 dB(A) ^{2) 3)}	78 / 86 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	0.1340 kg m ²		Vibration severity grade	A
Bearing DE NDE	6312 C3	6312 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation 50 60Hz	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	20 g 20 g	2000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	225 kg
Regreasing device	With regreasing nipple		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 71412 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	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	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. 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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Special design

E51	With EC type approval certificate acc. to DNV GL Maritime, KT 45 °C, temperature class 155 (F) utilised to 155 (F)	L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A
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