

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



Motor type : 1CV3163A

SIMOTICS SD - 160 M - 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	
400	Δ	50	15.00	-/-	27.00	2960	48.5	91.9	91.9	91.0	0.87	0.82	0.73	8.8	2.8	4.3	IE3
690	Y	50	15.00	-/-	15.70	2960	48.5	91.9	91.9	91.0	0.87	0.82	0.73	8.8	2.8	4.3	IE3
460	Δ	60	17.30	-/-	27.00	3560	46.5	91.7	91.5	90.3	0.88	0.84	0.75	8.7	2.7	4.2	IE3
460	Δ	60	15.00	-/-	24.00	3565	40.0	91.0	90.5	88.9	0.86	0.81	0.72	9.7	3.1	4.8	IE3
IM B3 / IM 1001		FS 160 M		110 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN						KS C IEC60034-2-1	

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

Locked rotor time (hot / cold) : 17.2 s | 24.4 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70.0 / 82.0 dB(A) ²⁾	77.0 / 89.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0610 kg m ²		Vibration severity grade	A
Bearing DE NDE	6309 Z C3	6309 Z C3	Insulation	180(H) to 180(H)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	10 g 10 g	8000 h	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	-/-		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	2 glands, 1 plug

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.	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					
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B02	Acceptance test certificate 3.1 acc. to EN 10204	Q25	Motor temperature sensing with integrated 2x KTY 84-130 temperature sensors
H70	Second outer earthing	R11	Terminal box rotated through 90°, cable entry from NDE
N10	Temperature class 180 (H)	R18	Cable gland metal, max. number
Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings	Y82	Auxiliary name plate with customer data

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.			
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