

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



Motor type : 1CV1182B

SIMOTICS SD - 180 M - IM B3 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Safe Area

Electrical data -/-

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	18.50	-/-	35.00	1468	120.0	89.3	90.2	90.2	0.85	0.82	0.73	7.3	2.2	3.1	IE1
690	Y	50	18.50	-/-	20.50	1468	120.0	89.3	90.2	90.2	0.85	0.82	0.73	7.3	2.2	3.1	IE1
460	Δ	60	21.30	-/-	34.50	1768	115.0	91.0	91.9	91.8	0.85	0.82	0.74	7.6	2.2	3.2	IE1
IM B3 / IM 1001		FS 180 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 9 s 14.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 76 dB(A) ^{2) 3)}	65 / 79 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1300 kg m ²		Thermal class	F
Bearing DE NDE	6210 2Z C3	6210 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	170 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled



Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L_{10mh} according to DIN ISO 281 10/2010
2) at rated power I at full load
3) Value is valid only for DOL operation with motor design IC411

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