

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



Motor type : 1CV3184C

SIMOTICS SD - 180 L - IM B5 - 6p

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	15.00	-/-	29.50	975	147.0	91.2	91.9	91.9	0.80	0.74	0.64	5.9	2.3	2.8	IE3
460	Δ	60	18.00	-/-	30.50	1170	147.0	91.7	92.5	92.6	0.81	0.76	0.67	5.8	2.1	2.6	IE2
460	Δ	60	15.00	20.00	26.00	1178	122.0	91.7	92.0	91.4	0.79	0.73	0.61	6.8	2.5	3.0	MG1
IM B5 / IM 3001		FS 180 L		CC032A		IP55	UKCA	IEC/EN 60034			IEC, EN, UL, CSA, NEMA MG1-12			kVA Code: J			
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 39.1 s 58.8 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61 / 68 dB(A) ^{2) 3)}	58 / 71 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1900 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)	180 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

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.		Link documents	
DI MC LVM		DT Configurator					
	document type				document status		
	datasheet				released		
	title	1LE1523-1EC43-4FA4			document number		
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