

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



Motor type : 1CV4182B

SIMOTICS SD - 180 M - IM B3 - 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	
230	Δ	60	21.30	-/-	69.00	1770	115.0	94.5	94.9	94.7	0.82	0.77	0.67	8.0	2.5	3.5	IE4
400	Y	60	21.30	-/-	39.50	1770	115.0	94.5	94.9	94.7	0.82	0.77	0.67	8.0	2.5	3.5	IE4
230	Δ	60	18.50	-/-	61.00	1775	100.0	94.5	94.6	94.0	0.80	0.74	0.63	9.0	2.9	4.0	IE4
400	Y	60	18.50	-/-	35.50	1775	100.0	94.5	94.6	94.0	0.80	0.74	0.63	9.0	2.9	4.0	IE4

IM B3 / IM 1001		FS 180 M	187 kg	IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN		
-----------------	--	----------	--------	------	--	--------------	------------------------	--	--

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

Locked rotor time (hot / cold) : 36.5 s | 48.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62.0 / 75.0 dB(A) ²⁾	76.0 / 87.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.1700 kg m ²		Vibration severity grade	A
Bearing DE NDE	6210 Z C3	6210 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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
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.
DI MC LVM		DT Configurator		

	document type	document status	customer	
	datasheet	released		
	title	document number		
	1LE1504-1EB21-8AA4			
© Siemens AG 2021	rev.	creation date	language	Page
	01	2021-04-22 09:53	en	1/1