

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



Motor type : 1CV2184D

SIMOTICS SD - 180 L - IM B3 - 8p

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								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	11.00	-/-	26.00	720	146.0	86.9	88.0	87.6	0.70	0.63	0.51	4.9	2.3	2.6	IE2
690	Y	50	11.00	-/-	15.10	720	146.0	86.9	88.0	87.6	0.70	0.63	0.51	4.9	2.3	2.6	IE2
460	Δ	60	13.20	-/-	25.50	865	146.0	88.5	90.1	90.3	0.73	0.67	0.56	4.9	2.2	2.4	IE1
460	Δ	60	11.00	-/-	22.50	875	120.0	88.5	89.1	88.3	0.69	0.62	0.49	5.6	2.6	2.9	IE2

IM B3 / IM 1001	FS 180 L	155 kg	IP56	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 38.9 s | 66.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72.0 / 80.0 dB(A) ²⁾	78.0 / 85.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.1950 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_A/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		
	1LE1501-1ED43-4AA4-Z D22+H22			
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	01	2021-06-17 09:57	en	1/2

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Special design

D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	H22	IP 56 degree of protection
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