

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



Motor type : 1CV3184D

SIMOTICS SD Premium Insulation - 180 L - IM V6 - 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]	$\eta^{3)}$			$\cos\varphi^{3)}$			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_l/I_N	T_l/T_N	T_B/T_N	
400	Δ	50	10.12	-/-	22.50	725	133.3	88.9	89.4	89.0	0.72	0.66	0.54	5.9	2.3	2.8	IE3
690	Y	50	10.12	-/-	13.20	725	133.3	88.9	89.4	89.0	0.72	0.66	0.54	5.9	2.3	2.8	IE3
460	Δ	60	12.14	-/-	23.00	870	133.3	89.9	90.6	90.3	0.74	0.69	0.58	5.7	2.1	2.6	IE3
460	Δ	60	11.00	-/-	21.50	880	119.0	89.5	89.7	88.8	0.72	0.66	0.55	6.1	2.3	2.9	IE3
IM V6 / IM 1031		FS 180 L		190 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN				KS C IEC60034-2-1			

Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 53.7 s | 74.4 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67.0 / 74.0 dB(A) 2)	71.0 / 78.0 dB(A) 2)	External earthing terminal	Yes (standard)
Moment of inertia	0.2670 kg m ²		Vibration severity grade	A
Bearing DE NDE	6310 Z C3		Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz 1)	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	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 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. 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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Special design

N06 Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced Q02 Anti-condensation heating for 230 V (2 terminals)

Additional information:

Space heaters

Technical data: 1-phase, 230 V 50W

Notes:

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