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

Motor type : 1CV1182B **- 180 M - IM B5 - 4p** **Motor Code 17027**

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

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
220	Δ	51.1	18.50	-/-	64.00	1500	118.0	89.3	-/-	-/-	0.85	-/-	-/-	-/-	-/-	3.1	-/-
380	Y	51.1	18.50	-/-	37.50	1500	118.0	89.3	-/-	-/-	0.85	-/-	-/-	-/-	-/-	3.1	-/-
440	Y	61.1	21.30	-/-	36.50	1800	113.0	91.0	-/-	-/-	0.85	-/-	-/-	-/-	-/-	3.2	-/-
380	Δ	88.1	31.00	-/-	62.00	2610	113.0	91.0	-/-	-/-	0.84	-/-	-/-	-/-	-/-	3.6	-/-

IM B5 / IM 3001	FS 180 M	170 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN	n_{max} 4200 1/min

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

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	71 / 83 dB(A) 2)	73 / 85 dB(A) 2)	Insulation	155(F) to 155(F)
Moment of inertia	0.1300 kg m²		Duty type	S9
Bearing DE | NDE	6210 ZC3	6210 ZC3	Direction of rotation	bidirectional
Relubrication interval/quantity DE | NDE	40000 h		Frame material	cast iron
Lubricants	Esso Unirex N3		Data of anti condensation heating	-/- V, -/- W
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping
Condensate drainage holes	Yes (standard)		Method of cooling	IC416 - separately ventilated, surface cooled
External earthing terminal	No			
Vibration severity grade	A			

Converter data

Feeding	SINAMICS with uncontrolled supply
Recommended converter	-/-

Terminal box

Terminal box position	top	Contact screw thread	M5
Material of terminal box	cast iron	Max. cross-sectional area	16.0 mm²
Type of terminal box	TB1 J01	Cable diameter from ... to ...	19.0 mm - 28.0 mm

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	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

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Cable entry	2xM40x1,5-1xM16x1,5
Cable gland	3 plugs -/-

Notes:

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	F70	Mounting of separately driven fan
F01	Mounting a brake	G11	Rotary pulse encoder Sendix 5020 (HTL)
F11	Brake supply voltage, 230 V AC, 50/60 Hz		

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