

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

Motor type : 1CV1220B

SIMOTICS SD (VSD) - 225 S - IM V3 - 4p

Motor Code 19020

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

Remarks **Safe Area**

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η			cosφ			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
								4/4	3/4	2/4	4/4	3/4	2/4				
380	Δ	50.8	37.00	-/-	73.00	1500	236.0	91.4	-/-	-/-	0.85	-/-	-/-	-/-	-/-	3.3	-/-
660	Y	50.8	37.00	-/-	42.00	1500	236.0	91.4	-/-	-/-	0.85	-/-	-/-	-/-	-/-	3.3	-/-
IM V3 / IM 2021		FS 225 S	260 kg	IP55	IEC/EN 60034		IEC, DIN, ISO, VDE, EN			n _{max} 4500 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	70 / 84 dB(A) ^{2) 3)}	- / - dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.3700 kg m ²		Insulation	155(F) to 155(F)
Bearing DE NDE	6213 C3	6213 C3	Duty type	S9
Relubrication interval/quantity DE NDE	20 g	20 g	Direction of rotation	bidirectional
Lubricants	Esso Unirex N3		Frame material	cast iron
Regreasing device	Yes		Data of anti condensation heating	-/- V, -/- W
Grease nipple	M10x1 DIN 3404 A		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Yes (standard)		Motor protection	(B) 3 PTC thermistors - for tripping
External earthing terminal	No		Method of cooling	IC411 - self ventilated, surface cooled

Converter data



Feeding	SINAMICS with uncontrolled supply	Base load current IL (50 Hz)	-/-
Recommended converter	6SL32101PH242ALO		

Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 42 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	4 plugs -/-

I_A/I_N = locked rotor current / current nominal 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411
M_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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Special design

L23	Regreasing system	R50	Larger terminal box
L51	Bearing insulation NDE		

I_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal
 M_b/M_N = break down torque / nominal torque

1) L_{10mh} 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

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