

SIMOTICS SD - 225 M - IM V1 - 2p

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

Remarks

Safe Area

Electrical data

-/-

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	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	41.40	-/-	72.00	2960	133.6	94.2	94.5	94.3	0.88	0.85	0.78	7.5	2.6	3.4	IE3
460	Δ	60	46.92	-/-	71.00	3560	125.9	93.7	93.8	93.4	0.88	0.86	0.79	7.4	2.6	3.3	IE3
460	Δ	60	45.00	-/-	69.00	3570	120.0	93.6	93.7	93.1	0.88	0.85	0.78	7.6	2.7	3.3	IE3
IM V1 / IM 3011			FS 225 M			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +50 °C / 1000 m									Locked rotor time (hot / cold) : 19.3 s 33.3 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	73 / 87 dB(A) ^{2) 3)}	75 / 89 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	0.2600 kg m ²		Vibration severity grade	A
Bearing DE NDE	6313 C3	6313 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	20 g 20 g 2000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	315 kg
Regreasing device	With (standard)		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm²
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
 M_A/M_N = locked rotor torque / torque nominal
 M_K/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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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 	
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS 

Motor type : 1CV3222A SIMOTICS SD - 225 M - IM V1 - 2p

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N31	Increased air humidity/temperature with 60 to 100 g water per m3 air
D33	KEA Korea Energy Efficiency Label	Q02	Anti-condensation heating for 230 V (2 terminals)
H00	Canopy	R50	Larger terminal box
H70	Second outer earthing	R62	Cast iron auxiliary terminal box (small)
N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced		

Additional information:

Space heaters

Technical data:	1-phase, 230 V 92W
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