

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



Motor type : 1CV3312B

SIMOTICS SD - 315 M - IM V1 - 4p

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

Remarks

Electrical data

Safe Area

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	
415	Δ	50	132.00	-/-	220.00	1490	850.0	95.6	95.9	95.9	0.87	0.85	0.77	7.3	2.8	3.0	IE3
480	Δ	60	152.00	-/-	215.00	1788	810.0	96.2	96.5	96.3	0.88	0.86	0.79	7.2	2.7	2.8	IE3
480	Δ	60	132.00	175.00	188.00	1790	700.0	96.2	96.3	95.8	0.87	0.84	0.76	8.2	3.1	3.2	MG1
IM V1 / IM 3011		FS 315 M		960 kg		IP55	CC032A	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12				kVA Code: K			

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

Locked rotor time (hot / cold) : 38.7 s | 57 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73.0 / 87.0 dB(A) ²⁾	78.0 / 92.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	2.9000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 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
Relubrication interval/quantity DE NDE	40 g 6000 h	40 g 6000 h	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	240.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38.0 mm - 45.0 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	Cable gland	4 plugs

Notes:

I _A /I _N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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