

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



Motor type : 1CV3280C

SIMOTICS SD - 280 S - IM B35 - 6p

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	45.00	-/-	79.00	988	435.0	93.7	94.3	94.2	0.85	0.81	0.73	6.8	3.0	2.8	IE3
480	Δ	60	54.00	-/-	81.00	1186	435.0	93.6	94.1	93.9	0.86	0.84	0.76	6.7	2.7	2.6	IE2
480	Δ	60	45.00	60.00	69.00	1190	360.0	94.5	94.6	94.1	0.83	0.78	0.68	7.7	3.3	3.1	MG1
IM B35 / IM 2001		FS 280 S		510 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) : 21 s | 30 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60.0 / 74.0 dB(A) ²⁾	66.0 / 80.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.4000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 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	30 g 30 g	8000 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	(A) without (Standard)
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	120.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34.0 mm - 42.0 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5
Contact screw thread	M10	Cable gland	2 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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