

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

Motor type: 7CV2182B SIMOTICS SD - 180M - IM B3 - 4 p

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	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]±10%		[Hz]±5%	[kW]	[hp]	[A]	[1/min]	[kgf.m]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4				
Motordaten / Motor Data																		
415	Δ	50	18.50	-/-	34.00	1465	12.0	121.0	91.2	91.2	90.8	0.82	0.77	0.66	7.0	2.7	2.9	IE2
IM B3 / IM 1001			FS 180M		160 kg		SF:1		IS 12615 / IEC 60034-1			-						
Environmental conditions : -20 °C - +50 °C / 1,000 m										Locked rotor time (hot / cold) : 8 s 12 s								


Mechanical data

Sound pressure level 50Hz 60Hz	72 dB(A)	75 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia Rotor GD ²	0.1250 kg m ² 0.5000 kgf.m ²		Vibration severity grade	A (Standard)
Bearing DE NDE	6310 2Z C3	6310 2Z C3	Insulation	155(F) utilized to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad max} according catalogue 50 60Hz ¹⁾	20,000 h	16,000 h	Direction of rotation	Bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	50,000 h	40,000 h	Frame material	Cast iron
Type of bearing	Locating (fixed) bearing, NDE		Forced ventilation motor details	- / -
Relubrication interval/quantity DE NDE	-/- g -/- g -/- h		Net weight of the motor (IM B3)	160 kg
Type of construction	IM B3 / IM 1001		Rotor weight	39 kg
Degree of protection	IP55		Data of anti condensation heating	-/- V, -/- W
Lubricants	Esso Unirex N3		Coating (paint finish)	Standard paint finish
Regreasing device	- / -		Color, paint shade	RAL7030
Grease nipple	-/-		Motor protection	(A) without
Condensate drainage holes	Yes		Method of cooling	IC411 - Self ventilated, surface cooled

Terminal box

Terminal box position	Top	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Material of terminal box	Sheet Metal	Cable entry	2xM40x1.5
Type of terminal box	TB7 J03	Cable gland	2 Plugs
Contact screw thread	M5		
Max. cross-sectional area	25 mm ²		

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			
3) Efficiency value is valid only for sinusoidal line supply operation.			
1) L _{10mh} according to DIN ISO 281 10/2010			

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