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

Motor type: **7CV2082A** **SIMOTICS SD - 80M - IM B3 - 2 p**

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

Electrical data

Safe Area

U [V]±10%	Δ / Y	f [Hz]±5%	P [kW]	P [hp]	I [A]	n [1/min]	M [kgf.m]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
Motordaten / *Motor Data*																		
415	Y	50	0.75	-/-	1.60	2798	0.3	2.6	77.8	77.8	77.2	0.83	0.76	0.64	4.9	2.5	2.5	IE2

IM B3 / IM 1001		FS 80M	16 kg	SF:1	IS 12615 / IEC 60034-1	-	

Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 13 s | 20 s

Mechanical data

Sound pressure level 50Hz | 60Hz	69 dB(A)	74 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia | Rotor GD²	0.0007 kg m² | 0.0027 kgf.m²		Vibration severity grade	A (Standard)
Bearing DE | NDE	6204 2ZC3	6204 2ZC3	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)	16 kg
Type of construction	IM B3 / IM 1001		Rotor weight	2 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	No		Method of cooling	IC411 - Self ventilated, surface cooled

Terminal box

Terminal box position	Top	Cable diameter from ... to ...	6.0 mm - 13.0 mm
Material of terminal box	Sheet Metal	Cable entry	1xM20x1.5
Type of terminal box	TB7 C03	Cable gland	1 Plug
Contact screw thread	M4		
Max. cross-sectional area	4 mm²		

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

1) L_{10mh} according to DIN ISO 281 10/2010

3) Efficiency value is valid only for sinusoidal line supply operation.

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

SIEMENS

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