

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

Motor type: 7CV3164A SIMOTICS SD - 160L - IM B3 - 2 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 <sup>3)</sup>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	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	-/-	32.00	2949	6.0	60.0	92.7	92.9	92.2	0.88	0.87	0.79	7.7	3.1	4.0	IE3	
IM B3 / IM 1001			FS 160L		137 kg		SF:1		IS 12615 / IEC 60034-1			-							
Environmental conditions : -20 °C - +50 °C / 1,000 m										Locked rotor time (hot / cold) : 16 s   29 s									

Mechanical data

Sound pressure level 50Hz   60Hz	74 dB(A)	79 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia   Rotor GD <sup>2</sup>	0.0611 kg m <sup>2</sup>   0.2443 kgf.m <sup>2</sup>		Vibration severity grade	A (Standard)
Bearing DE   NDE	6309 2Z C3	6309 2Z C3	Insulation	155(F) utilized to 130(B)
bearing lifetime			Duty type	S1
L <sub>10mh</sub> F <sub>Rad max</sub> according catalogue 50 60Hz <sup>1)</sup>	20,000 h	16,000 h	Direction of rotation	Bidirectional
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	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)	137 kg
Type of construction	IM B3 / IM 1001		Rotor weight	29 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 <sup>2</sup>		

<b>Notes:</b>			
I <sub>A</sub> /I <sub>N</sub> = locked rotor current / current nominal M <sub>A</sub> /M <sub>N</sub> = locked rotor torque / torque nominal M <sub>K</sub> /M <sub>N</sub> = break down torque / nominal torque			
3) Efficiency value is valid only for sinusoidal line supply operation.			
1) L <sub>10mh</sub> according to DIN ISO 281 10/2010			

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	Document type	CE			Document status
	Datasheet				Released
	MLFB and Order Code				Document number
	1LE7503-1DA43-5AA4				
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