

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



Motor type : 1CV2162B

SIMOTICS SD - 160 M - IM B3 - 4p

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
400	Δ	50	11.00	-/-	21.00	1470	71.0	89.8	91.0	90.9	0.85	0.82	0.73	6.7	2.1	2.8	IE2
690	Y	50	11.00	-/-	12.10	1470	71.0	89.8	91.0	90.9	0.85	0.82	0.73	6.7	2.1	2.8	IE2
460	Δ	60	12.60	-/-	20.50	1770	68.0	91.0	91.7	91.1	0.85	0.83	0.75	7.0	2.2	2.8	IE2
460	Δ	60	11.00	-/-	18.10	1775	59.0	91.0	91.2	90.1	0.84	0.80	0.71	7.7	2.5	3.2	IE2
IM B3 / IM 1001		FS 160 M		96 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 17.9 s | 28.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 77.0 dB(A) ²⁾	69.0 / 81.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0550 kg m ²		Vibration severity grade	A
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Insulation	180(H) to 180(H)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	3 Bi-metallic sensors (opener) for tripping (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	left	Max. cross-sectional area	16.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L10mh according to DIN ISO 281 10/2010
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
DI MC LVM		DT Configurator					
	document type	datasheet		document status	released		
	title	1LE1501-1DB23-4AZ6-Z B02+F01+F12+N10+Q3A+Y84		document number			
© Siemens AG 2021				rev.	creation date	language	Page
				01	2021-04-23 16:23	en	1/2

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



Motor type : 1CV2162B

SIMOTICS SD - 160 M - IM B3 - 4p

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N10	Temperature class 180 (H)
F01	Mounting a brake	Q3A	1/3 Bi-metallic sensors (opener) for tripping (2 terminals)
F12	Brake supply voltage 400 V AC, 50/60 Hz	Y84	Additional data on the rating plate and on the packing label :

Additional information:

Brake:

Description:	BFK458-20	Current:	.47 A
Voltage:	AC 400 V	Moment of inertia:	.0073 Nm

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
	document type datasheet				document status released		customer	
	title 1LE1501-1DB23-4AZ6-Z B02+F01+F12+N10+Q3A+Y84				document number			
© Siemens AG 2021				rev. 01	creation date 2021-04-23 16:23	language en	Page 2/2	