

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



Motor type : 1CV4164B

SIMOTICS SD - 160 L - IM B5 - 4p

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	
380	Δ	50	15.00	-/-	30.50	1480	97.0	93.9	94.0	93.3	0.80	0.74	0.62	7.8	3.7	4.3	IE4
660	Y	50	15.00	-/-	17.50	1480	97.0	93.9	94.0	93.3	0.80	0.74	0.62	7.8	3.7	4.3	IE4
440	Δ	60	17.30	-/-	29.50	1780	93.0	94.5	94.6	94.0	0.81	0.76	0.64	7.9	3.4	4.2	IE4
440	Δ	60	15.00	-/-	26.50	1780	80.0	94.1	94.0	93.0	0.79	0.72	0.60	8.8	3.9	4.8	IE4
IM B5 / IM 3001		FS 160 L		138 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 33.1 s 43.6 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63.0 / 76.0 dB(A) ²⁾	66.0 / 79.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0990 kg m ²		Vibration severity grade	A
Bearing DE NDE	6309 2Z C3	6309 2Z 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
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	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC418 - without fan and without housing fan

Terminal box

Terminal box position	top	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
Contact screw thread	M5	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_A/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.			
DI MC LVM		DT Configurator					
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SIMOTICS SD - 160 L - IM B5 - 4p

Special design

F90 Without external fan and without external fan cover L25 Double sides reinforced bearings for DE and NDE, Type 63

Notes:

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