

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

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Motor type / Motor type : 1CV3164B

SIMOTICS SD - 160 L - IM B3 - 4p

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

Remarks / Remarks

Safe Area

Electrical data / Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N I _f /I _N	M _A /M _N T _f /T _N	M _K /M _N T _B /T _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) / DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	15.00	-/-	49.50	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3
400	Y	50	15.00	-/-	28.50	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3
460	Y	60	17.30	-/-	28.50	1765	94.0	92.4	92.5	92.0	0.83	0.79	0.69	7.9	2.7	3.3	IE2
460	Y	60	15.00	-/-	25.00	1775	81.0	93.0	92.9	92.1	0.81	0.75	0.64	8.9	3.1	3.8	IE3
IM B3 / IM 1001		FS 160 L		IP56		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions / Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) / Locked rotor time (hot / cold) : 24.6 s 33.3 s							

Mechanical data / Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz Sound level (SPL / SWL) at 50Hz 60Hz	58 / 66 dB(A) ^{2) 3)}	66 / 74 dB(A) ^{2) 3)}	Vibration severity grade Vibration severity grade	A A
Moment of inertia Moment of inertia	0.0890 kg m ²		Thermal class Thermal class	F F
Bearing DE NDE Bearing DE NDE	6209 2Z C3	6209 2Z C3	Duty type Duty type	S1
bearing lifetime / bearing lifetime			Direction of rotation Direction of rotation	bidirectional bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material Frame material	cast iron cast iron
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾			Net weight of the motor (IM B3) Net weight of the motor (IM B3)	133 kg
Regreasing device Regreasing device	Without Without		Coating (paint finish) Coating (paint finish)	Special paint finish, resistant to salt-laden air C4 Special paint finish, resistant to salt-laden air C4
Grease nipple Grease nipple	-/-		Color, paint shade Color, paint shade	RAL5010
Type of bearing Type of bearing	Locating bearing NDE Locating bearing NDE		Motor protection Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals) (B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes Condensate drainage holes	With (standard) With (standard)		Method of cooling Method of cooling	IC411 - self ventilated, surface cooled IC411 - self ventilated, surface cooled
External earthing terminal External earthing terminal	With (standard) With (standard)			

Terminal box / Terminal box

Terminal box position Terminal box position	top top	Max. cross-sectional area Max. cross-sectional area	16 mm ²
Material of terminal box Material of terminal box	cast iron cast iron	Cable diameter from ... to ... Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box Type of terminal box	TB1 K01	Cable entry Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread Contact screw thread	M5	Cable gland Cable gland	3 plugs 3 plugs

I_A/I_N = locked rotor current / current nominal 1) L_{10mh} 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

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

C02	VIK version VIK version	R50	Larger terminal box Larger terminal box
H07	Stainless steel screws and bolts (outside the motor) Stainless steel screws and bolts (outside the motor)	S03	Special paint finish in sea air resistant C4 Special paint finish in sea air resistant C4
H22	IP 56 degree of protection IP 56 degree of protection	Y53	Paint finish in other standard RAL colours RAL5010 Paint finish in other standard RAL colours RAL5010

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