

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



Motor type : 1CV3162A

SIMOTICS SD - 160 M - IM V1 - 2p

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

Remarks

Safe Area

## Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η <sup>3)</sup>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub> I <sub>f</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub> T <sub>f</sub> /T <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub> T <sub>B</sub> /T <sub>N</sub>	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
400	Δ	50	11.00	-/-	19.60	2945	35.5	91.2	91.4	90.6	0.89	0.86	0.79	8.3	2.5	3.5	IE3
690	Y	50	11.00	-/-	11.30	2945	35.5	91.2	91.4	90.6	0.89	0.86	0.79	8.3	2.5	3.5	IE3
460	Δ	60	12.60	-/-	19.30	3540	34.0	91.0	90.9	89.5	0.90	0.87	0.81	8.4	2.5	3.5	IE3
460	Δ	60	11.00	-/-	17.20	3555	29.5	91.0	90.4	88.4	0.88	0.85	0.77	9.5	2.9	4.0	IE3
IM V1 / IM 3011		FS 160 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 21.3 s   29.7 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77 / 85 dB(A) <sup>2) 3)</sup>	82 / 90 dB(A) <sup>2) 3)</sup>	External earthing terminal	With
Moment of inertia	0.0370 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6309 Z C3	6309 Z C3	Thermal class	F
<b>bearing lifetime</b>			Duty type	S1
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	20000 h	16000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE   NDE	10 g   10 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	97 kg
Regreasing device	With (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M8x1 DIN 71412		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	2 glands, 1 plug

I<sub>f</sub>/I<sub>N</sub> = locked rotor current / current nominal  
 M<sub>f</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
 M<sub>K</sub>/M<sub>N</sub> = break down torque / nominal torque  
 1) L<sub>10mh</sub> 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

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## Special design

H04	External grounding at housing	Q02	Anti-condensation heating for 230 V (2 terminals)
L20	Locating bearing, DE	R18	Cable gland metal, max. number

## Additional information:

### Space heaters

Technical data: 1-phase, 230 V 50W

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