

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



Motor type : 1CV3130A

SIMOTICS SD - 132 S - IM B3 - 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>																	
230	Δ	50	5.50	-/-	17.60	2945	17.8	89.2	89.5	88.6	0.88	0.84	0.73	8.9	2.5	3.8	IE3
400	Y	50	5.50	-/-	10.10	2945	17.8	89.2	89.5	88.6	0.88	0.84	0.73	8.9	2.5	3.8	IE3
460	Y	60	6.30	-/-	10.00	3540	17.0	88.5	89.0	88.1	0.89	0.84	0.75	9.9	2.6	4.0	IE2
460	Y	60	5.50	-/-	8.90	3550	14.8	89.5	89.0	87.0	0.87	0.82	0.71	11.1	3.0	4.6	IE3
IM B3 / IM 1001		FS 132 S		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -30 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 10.8 s | 14.7 s

**Mechanical data**

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 77 dB(A) <sup>2) 3)</sup>	74 / 82 dB(A) <sup>2) 3)</sup>	External earthing terminal	Without
Moment of inertia	0.0168 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6308 Z C3	6308 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>	40000 h	32000 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)	66 kg
Regreasing device	With		Coating (paint finish)	Standard paint finish C2
Grease nipple	M8x1 DIN 71412		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (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	6 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H01	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

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

D04	Minimum ambient temperature -30°C	L25	Double sides reinforced bearings for DE and NDE, Type 63
F76	Metal external fan	Q02	Anti-condensation heating for 230 V (2 terminals)
L23	Regreasing system		

## Additional information:

### Space heaters

Technical data: 1-phase, 230 V 50W

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