

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



Motor type : 1CV3403B

SIMOTICS SD Add - 400 - IM B3 - 4p

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>I</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub> T <sub>I</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	560.00	-/-	970.00	1492	3600.0	96.2	96.3	95.8	0.87	0.84	0.77	6.5	1.8	2.7	IE3
690	Y	50	560.00	-/-	560.00	1492	3600.0	96.2	96.3	95.8	0.87	0.84	0.77	6.5	1.8	2.7	IE3
460	Δ	60	560.00	-/-	850.00	1793	3000.0	96.3	96.0	94.8	0.86	0.83	0.74	7.2	2.0	2.9	IE3
460	Δ	60	644.00	-/-	950.00	1791	3450.0	96.3	96.3	95.5	0.88	0.85	0.79	6.4	1.7	2.5	IE3
460	Δ	60		700	790.00	1794	2800.0	96.3	95.8	94.5	0.86	0.83	0.74	7.7	2.1	3.1	MG1
IM B3 / IM1001 <sub>4)</sub>		SF:	FS 400			IP55	UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-Part 20							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 3.72 s   4.24 s							

### Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	78 / 94 dB(A) <sup>3)</sup>	82 / 98 dB(A) <sup>3)</sup>	Condensate drainage holes	(Standard) Yes	
Moment of inertia	12.8000 kg m <sup>2</sup>		External earthing terminal	(Standard) Yes	
Bearing DE   NDE	DIN625-6224-C3	DIN625-6224-C3	Vibration severity grade	Grade A	
permissible lateral force on (N) (N)	X <sub>0</sub> : 6830	X <sub>0.5</sub> : N/A	X <sub>max</sub> : 5870	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	40 g   40 g 6000 h		Frame material	cast iron	
Lubricants	SHELL GADUS S2 V100 3		Net weight of the motor	2800 kg	
Regreasing device	Flat type lubricating nipple		Coating (paint finish)	Standard paint finish C2	
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7015	
Type of bearing	Locating bearing DE		Motor protection	2 temperature sensors KTY84-130 (4 terminals)	
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled	

### Terminal box

Terminal box position	box at the angle 45°, socket right	Max. cross-sectional area	240 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	56 mm - 64.5 mm
Type of terminal box	TB3R61	Cable entry	4xM80x2 - 2xM25x1,5
Contact screw thread	12xM16	Cable gland	6 plugs

### Notes:

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  
4) For IM B5 design additionally support foot (not scope of delivery) is required

responsible dep. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	<a href="#">Link documents</a>
	document type datasheet	document status released			document number
	title 1LE5533-4AB33-4AG3-Z B02+B60+B61+L51+R62+Y66	rev. 953	creation date 2024-01-16		
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## Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L51	Bearing insulation NDE
B60	Document electrical datasheet	R62	Cast iron auxiliary terminal box (small)
B61	Document order dimension drawing	Y66	Non-standard colors RAL7015

Notes:

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	<a href="#">Link documents</a>
<b>SIEMENS</b>	document type datasheet	document status released			
	title 1LE5533-4AB33-4AG3-Z B02+B60+B61+L51+R62+Y66	document number			
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