

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



Motor type : 1CV3222B

SIMOTICS SD - 225 M - IM B3 - 4p

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

## Electrical data

## Safe Area

U [V]	$\Delta / Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta$ <sup>3)</sup>			$\cos\phi$ <sup>3)</sup>			$I_A/I_N$ $I_i/I_N$	$M_A/M_N$ $T_i/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
460	$\Delta$	60	52.00	-/-	81.00	1778	280.0	94.1	94.7	94.8	0.86	0.84	0.77	6.8	2.6	2.6	IE2
IM B3 / IM 1001		FS 225 M		340 kg	IP55	IEC/EN 60034		IEC, DIN, ISO, VDE, EN									

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 33.7 s | 53.1 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 78.0 dB(A) <sup>2)</sup>	68.0 / 82.0 dB(A) <sup>2)</sup>	External earthing terminal	Yes (standard)
Moment of inertia	0.5200 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6213 Z C3	6213 Z C3	Insulation	155(F) to 130(B)
<b>bearing lifetime</b>			Duty type	S1
$L_{10mh}$ $F_{Rad, min}$ for coupling operation 50 60Hz <sup>1)</sup>	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	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	35.0 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread	M8	Cable gland	4 plugs

### Notes:

$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_K/M_N$  = break down torque / nominal torque

1) L10mh 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

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>			
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## Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	F11	Brake supply voltage, 230 V AC, 50/60 Hz
B65	Normal test (routine test) with acceptance	M1F	460 VD for 60 Hz, 60-Hz power
F01	Mounting a brake	Q02	Anti-condensation heating for 230 V (2 terminals)

## Additional information:

### Space heaters

Technical data: 1-phase, 230 V 92W

### Brake:

Description:	BFK458-25	Current:	A
Voltage:	AC 230 V	Moment of inertia:	Nm

## Notes:

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