

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



Motor type : 1CV2073D

SIMOTICS SD - 71 M - IM B3 - 8p

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				
400	$\Delta$	50	0.12	-/-	0.66	640	1.8	39.8	39.3	34.5	0.66	0.55	0.44	1.8	1.8	1.8	IE2
690	Y	50	0.12	-/-	0.38	640	1.8	39.8	39.3	34.5	0.66	0.55	0.44	1.8	1.8	1.8	IE2
460	$\Delta$	60	0.14	-/-	0.69	795	1.7	40.0	39.0	34.6	0.64	0.54	0.43	2.1	1.9	2.0	IE2
460	$\Delta$	60	0.12	-/-	0.66	815	1.4	40.0	38.0	33.0	0.57	0.49	0.39	2.1	2.3	2.4	IE2

IM B3 / IM 1001	FS 71 M	12 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 110 s | 140 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	48 / 59 dB(A) <sup>2)</sup>	52 / 63 dB(A) <sup>2)</sup>	External earthing terminal	No
Moment of inertia	0.0010 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6202 2Z C3	6202 2Z C3	Insulation	155(F) to 130(B)
<b>bearing lifetime</b>			Duty type	S1
L <sub>10mh</sub> , F <sub>Rad min</sub> 50 60Hz <sup>1)</sup> for coupling operation	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	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled


## Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 D01	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

## Notes:

$I_A/I_N$ = locked rotor current / current nominal	1) L10mh 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	
$M_K/M_N$ = break down torque / nominal torque		

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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