

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



Motor type : 1CV2094A

SIMOTICS SD - 90 L - IM B3 - 2p

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				
380	$\Delta$	50	2.20	-/-	4.75	2890	7.3	83.2	83.7	82.0	0.85	0.77	0.64	7.1	2.5	3.7	IE2
660	Y	50	2.20	-/-	2.70	2890	7.3	83.2	83.7	82.0	0.85	0.77	0.64	7.1	2.5	3.7	IE2
440	$\Delta$	60	2.54	-/-	4.55	3485	7.0	85.5	86.0	84.4	0.86	0.80	0.68	7.6	2.6	3.9	IE2
440	$\Delta$	60	2.20	-/-	4.05	3510	6.0	85.5	85.2	82.6	0.83	0.76	0.62	8.7	3.0	4.6	IE2

IM B3 / IM 1001	FS 90 L	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1,000 m			Locked rotor time (hot / cold) : 4.13 s   7.73 s	

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 77 dB(A) <sup>2)</sup>	69 / 81 dB(A) <sup>2)</sup>	Vibration severity grade	A
Moment of inertia	0.0021 kg m <sup>2</sup>		Insulation	155(F) to 130(B)
Bearing DE   NDE	6205 2Z C3	6204 2Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
L <sub>10mh</sub> , F <sub>Rad</sub> min 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	26 kg
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
External earthing terminal	No			


## 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
$M_k/M_N$ = 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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