

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



Motor type : 1CV3094A

INNOMOTICS SD - 90 L - IM V1 - 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>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	2.20	-/-	4.20	2910	7.2	85.9	86.8	86.1	0.88	0.83	0.73	8.3	2.6	4.0	IE3
690	Y	50	2.20	-/-	2.45	2910	7.2	85.9	86.8	86.1	0.88	0.83	0.73	8.3	2.6	4.0	IE3
460	Δ	60	2.55	-/-	4.25	3510	6.9	85.5	86.0	84.9	0.88	0.84	0.75	8.3	2.6	4.2	IE2
460	Δ	60	2.20	-/-	3.65	3530	6.0	86.5	86.4	84.5	0.87	0.82	0.71	9.6	3.0	4.9	IE3
IM V1 / IM 3011		FS 90 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 5.9 s   8.5 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 77 dB(A) <sup>2) 3)</sup>	69 / 81 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0031 kg m <sup>2</sup>		Thermal class	F
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 min</sub> 50 60Hz <sup>1)</sup> for coupling operation	20000 h	16000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	32 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	Without		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

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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