

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



Motor type : 1CD3094B SIMOTICS XP - 90 L - IM B3 - 4p

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

Remarks **II 2G Ex db eb IIC T4 Gb**

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	50	1.30	-/-	3.00	1450	8.6	85.7	85.7	84.3	0.76	0.68	0.53	8.4	3.3	4.0	IE3
660	Y	50	1.30	-/-	1.74	1450	8.6	85.7	85.7	84.3	0.76	0.68	0.53	8.4	3.3	4.0	IE3
440	Δ	60	1.30	-/-	2.70	1760	7.0	86.3	85.5	82.7	0.73	0.64	0.51	9.9	3.9	4.9	IE3
IM B3 / IM 1001		FS 90 L			IP55		IEC/EN 60034										

Environmental conditions : -20 °C - +55 °C / 1000 m Locked rotor time (hot / cold) : 17.6 s | 21.5 s

These values are calculated. The final rating plate data will be calculated when the order is placed
The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	55 / 63 dB(A) ^{2) 3)}	58 / 66 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.0050 kg m ²		Duty type	S1
Bearing DE NDE	6205 2Z C3	6205 2Z C3	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad} min for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Net weight of the motor	45 kg
Regreasing device	Without		Motor weight incl. options	45 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E21	Cable entry	-/-
Contact screw thread	M4		

I_A/I_N = locked rotor current / current nominal 1) L_{10mh} 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

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

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>	Link documents	
	Document type Technical data sheet	Document status Released				
	Document title 1MB1553-0EB43-3AB4-Z	Document number TDS-240614-120414				
Restricted © Innomotics 2024	N07	Revision AA	Creation date 2024-06-14		Language en	Page 1/2

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



Motor type : 1CD3094B

SIMOTICS XP - 90 L - IM B3 - 4p

Special design

N07 Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

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>		Link documents
	Document type Technical data sheet	Document status Released				
	Document title 1MB1553-0EB43-3AB4-Z	Document number TDS-240614-120414				
Restricted © Innomotics 2024	N07	Revision AA	Creation date 2024-06-14	Language en	Page 2/2	