

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



Motor type : 1CV3104A

SIMOTICS SD - 100 L - IM V18 - 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]	$\eta^{3)}$			$\cos\phi^{3)}$			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_f/I_N	T_f/T_N	T_B/T_N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	2.76	-/-													
460	Δ	60	3.17	-/-													
460	Δ	60	3.00	-/-													

IM V18 / IM 3611	FS 100 L	IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +50 °C / 1000 m

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	72 / 80 dB(A) ^{2) 3)}	75 / 83 dB(A) ^{2) 3)}	External earthing terminal	With
Moment of inertia	0.0041 kg m ²		Vibration severity grade	A
Bearing DE NDE	6206 Z C3	6206 Z C3	Thermal class	F
bearing lifetime			Duty type	S1
$L_{10mh} F_{Rad, min}$ for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	5 g 5 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	37 kg
Regreasing device	With		Coating (paint finish)	Special paint finish C3
Grease nipple	M8x1 DIN 71412		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F01	Cable entry	2xM32x1,5
Contact screw thread	M4	Cable gland	2 plugs

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

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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>	Link documents
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L23	Regreasing system
D33	KEA Korea Energy Efficiency Label	M11	Stainless steel rating plate
H00	Canopy	N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced
H04	External grounding at housing	S02	Special paint finish C3

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