

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



Motor type : 1AV3103C

SIMOTICS GP - 100 L - IM B14 - 6p

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 ³⁾			cosφ ³⁾			I _A /I _N I _f /I _N	M _A /M _N T _f /T _N	M _K /M _N T _B /T _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	1.01	-/-	4.60	975	9.9	81.0	80.5	77.7	0.68	0.59	0.46	6.1	2.4	3.1	IE3
400	Y	50	1.01	-/-	2.65	975	9.9	81.0	80.5	77.7	0.68	0.59	0.46	6.1	2.4	3.1	IE3
460	Y	60	1.16	-/-	2.50	1175	9.4	85.4	84.6	81.5	0.68	0.60	0.48	6.6	2.3	3.0	IE2
460	Y	60	1.10	-/-	2.30	1180	8.9	87.5	87.2	84.8	0.69	0.62	0.50	6.7	2.4	3.3	IE3
IM B14 / IM 3601		FS 100 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +50 °C / 1000 m

Locked rotor time (hot / cold) : 56.9 s | 64.7 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	59 / 71 dB(A) ^{2) 3)}	62 / 74 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0110 kg m ²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	30 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	4 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5
Contact screw thread	M4	Cable gland	2 plugs

I_A/I_N = locked rotor current / current nominal
 M_A/M_N = locked rotor torque / torque nominal
 M_K/M_N = break down torque / nominal torque
 1) L_{10mh} 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

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 1LE1043-1AC32-2KA4-Z D33+N06+P02	Document number TDS-240424-114547			
Restricted © Innomotics 2024	Revision AA	Creation date 2024-04-24	Language en	Page 1/2	

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



Motor type : 1AV3103C

SIMOTICS GP - 100 L - IM B14 - 6p

Special design

D33	KEA Korea Energy Efficiency Label	P02	Next smaller flange
N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°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 1LE1043-1AC32-2KA4-Z	Document number TDS-240424-114547			
Restricted © Innomotics 2024	D33+N06+P02	Revision AA	Creation date 2024-04-24		