

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

Data sheet for three-phase Squirrel-Cage-Motors



Motor type / Motor type : 1AV3204A

INNOMOTICS GP - 200 L - IM B3 - 2p

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

Remarks / Remarks

Safe Area

Electrical data / Electrical data

-/-

U	Δ / Y	f	P	P	I	n	M	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I_l/I_N	T_l/T_N	T_B/T_N	
DOL duty (S1) / DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	30.00	-/-	53.00	2955	97.0	93.3	93.5	92.9	0.87	0.84	0.76	7.0	2.5	3.3	IE3
690	Y	50	30.00	-/-	31.00	2955	97.0	93.3	93.5	92.9	0.87	0.84	0.76	7.0	2.5	3.3	IE3
460	Δ	60	33.50	-/-	52.00	3555	90.0	93.0	92.8	91.4	0.87	0.84	0.77	7.1	2.5	3.3	IE3
460	Δ	60	30.00	-/-	47.00	3560	80.0	92.4	91.9	90.1	0.87	0.84	0.77	8.5	3.0	3.7	IE3
IM B3 / IM 1001		FS 200 L				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions / Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) / Locked rotor time (hot / cold) : 32.2 s 52.7 s							

Mechanical data / Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz Sound level (SPL / SWL) at 50Hz 60Hz	73 / 80 dB(A) ^{2) 3)}	78 / 86 dB(A) ^{2) 3)}	Vibration severity grade Vibration severity grade	A A
Moment of inertia Moment of inertia	0.1340 kg m ²		Thermal class Thermal class	F F
Bearing DE NDE Bearing DE NDE	6212 2Z C3	6212 2Z C3	Duty type Duty type	S1
bearing lifetime / bearing lifetime			Direction of rotation Direction of rotation	bidirectional bidirectional
$L_{10mh} F_{Rad min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material Frame material	aluminum aluminum
$L_{10mh} F_{Rad min}$ for coupling operation 50 60Hz ¹⁾			Net weight of the motor (IM B3) Net weight of the motor (IM B3)	173 kg
Regreasing device Regreasing device	Without Without		Coating (paint finish) Coating (paint finish)	Standard paint finish C2 Standard paint finish C2
Grease nipple Grease nipple	-/-		Color, paint shade Color, paint shade	RAL7030
Type of bearing Type of bearing	Locating bearing NDE Locating bearing NDE		Motor protection Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals) (B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes Condensate drainage holes	Without Without		Method of cooling Method of cooling	IC411 - self ventilated, surface cooled IC411 - self ventilated, surface cooled
External earthing terminal External earthing terminal	Without Without			

Terminal box / Terminal box

Terminal box position Terminal box position	top top	Max. cross-sectional area Max. cross-sectional area	25 mm ²
Material of terminal box Material of terminal box	Aluminium Aluminium	Cable diameter from ... to ... Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box Type of terminal box	TB1 L00	Cable entry Cable entry	2xM50x1,5-1xM16x1,5
Contact screw thread Contact screw thread	M6	Cable gland Cable gland	3 plugs 3 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. / 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	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
INNOMOTICS	Document type Technical data sheet	Document status Released			
	Document title 1LE1003-2AA43-4AB4	Document number TDS-240917-141127			
Restricted © Innomotics 2024	Revision AA	Creation date 2024-09-17	Language en/en		