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



Page

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Language

en/en

Revision

AA

Creation date

2024-09-17

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And the set of the se	U	U Δ/Υ		Р	Р	I	n	М	η <sup>3)</sup>				cosφ <sup>3)</sup> Ι <sub>Α</sub>		I <sub>A</sub> /I <sub>N</sub>	$M_A/M_N$	M <sub>K</sub> /M <sub>N</sub>	IE-CL	
And Book         A book         A book         B book         A book         B book         B bo	[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	$I_{I}/I_{N}$	$T_{\rm I}/T_{\rm N}$	T <sub>B</sub> /T <sub>N</sub>		
690       Y       50       30.00       4       31.00       2955       97.0       93.3       93.5       92.0       0.84       0.77       7.0       2.5       3.3       183         460       A       60       33.00       -4       52.00       3555       90.0       93.3       92.5       91.0       0.84       0.77       7.1       2.5       3.3       183         103       103       -4       7.00       2.5       7.0       7.0       2.5       3.0       3.7       17.0       2.5       3.0       3.7       17.0       2.5       3.0       3.7       17.0       2.5       3.0       17.0       2.5       3.0       17.0       2.5       3.0       17.0       17.0       2.5       3.0       17.0       17.0       2.5       3.0       17.0       17.0       2.5       3.0       17.0       17.0       2.5       3.0       17.0       17.0       17.0       2.5       3.0       17.0       17.0       2.5       3.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0       17.0							DOL duty	(S1) / DOL a	luty (S1	<b>)</b> - 155(F	) to 13	D(B)							
All of	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	
460         60         300.0         1         400.0         3550         800.0         92.4         91.9         90.1         0.0.7         0.8.4         0.7.7         0.7.7         0.7.7         0.7.7         0.7.7         0.7.7         0.7.7         0.7.7         0.7.7         0.7.7         0.7.7	690		50	30.00	-/-	31.00	2955	97.0	93.3	93.5	92.9		0.84	0.76	7.0	2.5	3.3	IE3	
Absolution         Object of a state of a sta									1			1			1			1	
Environmental conditions / E-wommented conductions : 2:0 °C + 40 °C / 1000 m         Locked rotor time (hot / cold) / i.exted onder strain (hot / raid) : 3:2.2 1 [5:7.5           Mechanical data / Mechanical data         Sound rever (SPL / SNU) a SUNEQOM: moment of network (SPL / SNU) a SUNEQOM: m			60			47.00					90.1				8.5	3.0	3.7	IE3	
Machanical data / Mechanical data           Spund liver (SPL (SPL) as Subjective Morrisof of inertia memory SpL as Subjective Morrisof of inertia memory SpL (MCC         73 / 80 dB(A) ???         78 / 86 dB(A) ???         Yell as Subjective Morrisof of inertia 0.1340 kg m²         A Participation service (SPL (SPL) as Subjective Morrisof of inertia 0.1340 kg m²         A Participation service (SPL) Subjective Morrisof of inertia 0.1340 kg m²         A Participation service (SPL) Subjective Morrisof of inertia 0.1340 kg m²         A Participation service (SPL) Subjective Morrisof (MCC)         A Participation service (SPL) Subjective Morrisof (SPL) Subjective Mo	IM B3 / IM 1001 FS 200 L												DIN, ISO, VDE, EN						
Sound level (SPL/SWL) at 50Hz[60Hz         73 / 80 dB(A) = 20         Witation severity grade the main probe         A           Moment of nexts         0.1340 kg m <sup>3</sup> Thermal class severity grade the main probe         A           Bearing DF INDE Bearing DF INDE Bearing DF INDE Bearing Metime (Jeaning Metime Lange Repert For Calibre and States)         6212 2Z C 3         6212 2Z C 3         6212 2Z C 3           Duty type Bearing DF INDE Bearing Metime (Jeaning Metime Lange Repert For Calibre and States)         6212 2Z C 3         6212 2Z C 3         6212 2Z C 3           Dearing Metime (Jeaning Metime Lange Repert For Calibre and States)         6212 2Z C 3         6212 2Z C 3         6212 2Z C 3           Dearing Metime (Jeaning Metime Lange Repert For Calibre and States)         6212 2Z C 3         6212 2Z C 3         6212 2Z C 3           Dearing Metime (Jeaning Metime Lange Repert For Calibre and States)         6212 2Z C 3         6212 2Z C 3         6212 2Z C 3           Dearing Metime (Jeaning Metime Lange Repert For Calibre and States)         6212 2Z C 3         6212 2Z C 3         6212 2Z C 3           Dearing Metime (Jeaning Jeaning Metime Lange Repert For Calibre and States)         Metime (Jeaning Heining Metime Lange Repert For Calibre and States)         1000 h         82000 h           Conderstate draining heining Metime Lange Repert For Calibre and Repert F	Env	ironme	ental co	nditions /	Environmento	l conditions	: -20 °C - +	-40 °C / 100	00 m	Locked	d rotor t	ime (ho	ot / cold) /	Locked rote	or time (h	ot / cold):	32.2 s	52.7 s	
Source for (PM, PM) or 30-000 (MP)         Year 000 (MP)         Year 000 (MP)         A           Bear ing DE (NDE Bearing DE (ND	Mecha	nical d	ata / M	echanica	l data														
Markener of liveritia         0.1340 kg m <sup>2</sup> Thermal data shake         P           Barring DE INDE         6212.22 C 3         6212.22 C 3         6212.22 C 3           During Te Jone         Control of the mode of the					OHz 73	/ 80 dB(A) <sup>2</sup>	<sup>2) 3)</sup> 78	/ 86 dB(A) <sup>2) 3)</sup>				de							
Beam Sing DE I NOE Bearing DE I NOE SoleControl Coupling operation selectric SoleControl I Coupling I Coupling Operation SoleControl I Coupling I Coupling Operation SoleControl I Coupling I Coupling I Coupling Operation SoleControl I Coupling	Moment of inertia							2	The	Thermal class						F			
Description         Discription         Discription <thdiscription< th=""> <thdiscription< th=""></thdiscription<></thdiscription<>	Bearing DE   NDE 6212.27 (						5		Dut	Duty type									
Logg Figure for coupling operation 5000/r         40000 h         32000 h         32000 h         Figure field coupling operation 5000/r         Output field coupling operation 5000/r <td>, in the second s</td> <td></td> <td></td> <td>ina lifetime</td> <td></td> <td></td> <td></td> <td></td> <td>Dire</td> <td>ection of re</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>idirectiona</td> <td></td> <td></td>	, in the second s			ina lifetime					Dire	ection of re						idirectiona			
Splight 201 Byter Faceting (bring counting splight)         40000 h         32000 h         Prome material (bring faceting (bring counting splight))         Standard paint finish (Cathing (bring finish))         Standard paint finish (Cathing bring finish)         Standard paint finish (Cathing bring finish)           Orders of pring Type of boxing Condenset drininge holes         -/         Color, paint shade (bring finish)         Standard paint finish)         Standard paint finish (Cathing bring finish)           Orders of pring Type of boxing Condenset drininge holes         Without Without         Color, paint shade (Cathing bring finish)         Standard paint finish)         Standard paint finish)           Terminal box / Terminal box Ferminal box position Terminal box position Terminal box position Terminal box position Terminal box Adaminium Vite of terminal box         Nax. cross-sectional area Material of terminal box         25 mm <sup>2</sup> Vite of terminal box Preserver thread         Na         Color section area Material of terminal box         2 mm <sup>2</sup> Vite of terminal box Preserver thread         Na         Coss-sectional area Material of terminal box         2 mm <sup>2</sup> Vite of terminal box Preserver thread         Na         Coss-sectional area Material of terminal box         2 mm <sup>2</sup> Vite o	$L_{10mh}$ F <sub>Rad min</sub> for coupling operation								Frame material				aluminum						
Regressing device     Without     Containing for the mining in the SD containing for the mining in the SD SD SD Chemistry for the place (6) 3 PT Chemistry for the mining in the SD SD SD Chemistry for the mining in the SD SD SD Chemistry for the Mining in the SD SD SD Chemistry for the SD SD SD Max cross-sectional area Max cr	50[60Hz <sup>1)</sup> 40000 k								Net weight of the motor (IM				VI B3) 173 kg						
Greese nipple Concerse nipple C	1)						Without		Coating (paint finish)				Standard paint finish C2						
Greeze nighte       Image: Color, plant shade       (Color, plant shade<	Regreasing device								Color, paint shade				•						
Type of bearing       Locaring bearing NDE Condensate drainage holes       Without       Notar protection       (0) 3 PTC thermistors - for tripping 2 terminals bearing and the set of a condensate drainage holes         External earthing terminal       Without       Method of cooling UC411 - set ventilated, surface cooled         External earthing terminal box / External earthing terminal box position       top       Max. cross-sectional area Max. cross-sectional area Max. cross-sectional area (Cable diameter from to 27 mm - 35 mm         Type of terminal box / Provide to reaction and the section of the s	Grease nipple					Locat		Colo	Color, paint shade										
Conderspect drainage holes         Without         Method of cooling         IC411 - self ventilated, surface cooled           External earthing terminal         Without         Without         Response of the self ventilated, surface cooled           Terminal box / Terminal box / Terminal box         top         Max. cross-sectional area         25 mm <sup>2</sup> Terminal box position         top         Max. cross-sectional area         27 mm - 35 mm           Material of terminal box         Aluminium         Cable diameter from to         27 mm - 35 mm           Material of terminal box         TB1 L00         Cable diameter from to         27 mm - 35 mm           Contact screw thread         M6         Cable diameter from to         27 mm - 35 mm           Contact screw thread         M6         Cable diameter from to         27 mm - 35 mm           Mode         Cable diameter from to         27 mm - 35 mm         20 mm - 35 mm           Contact screw thread         M6         Cable gland         3 plugs         3 plugs	Type of bearing Lo						ting bearing I	Mote	Motor protection				(B) 3 PTC thermistors - for tripping (2 terminals)						
External earthing ferminal       Without         Terminal box / Terminal box position       top         Material of terminal box position       top         Material of terminal box maintain       Cable diameter from to       27 mm - 35 mm         Material of terminal box maintain       Cable entry       27 mm - 35 mm         Type of terminal box for terminal box       TB1 L00       Cable entry       2xM50x1,5-1xM16x1,5         Contact screw thread       M6       Cable entry       2xM50x1,5-1xM16x1,5         Contact screw thread       M6       Cable entry       2xM50x1,5-1xM16x1,5         Material of terminal box       TB1 L00       Cable entry       2xM50x1,5-1xM16x1,5         Contact screw thread       M6       Cable entry       2xM50x1,5-1xM16x1,5         Material box for terms thread       1/Loss according to DNISO 281 102010       3) Value is valid only for DOL operation with motor design K411         MA4, - brack down torque nominal       2) at tatel power / at full load       3) value is valid only for DOL operation with motor design K411         MA4, - brack down torque nominal       2) at tatel power / at full load       3) value is valid only for DOL operation with motor design K411         MA4, - brack down torque nominal       2) at tatel power / at full load       3) value is valid only for DOL operation with motor design K411         MA4,	Condensate drainage holes						Without												
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Material of terminal box       Aluminium       Cable diameter from to Columication cable diameter from to 27 mm - 35 mm         Material of terminal box       TB1 L00       Cable diameter from to Columication to 20 mm - 35 mm         Type of terminal box       TB1 L00       Cable diameter from to Columication to 20 mm - 35 mm         Contact screw thread       M6       Cable diameter from to Cable gland       3 plugs         Contact screw thread       M6       Cable diameter from to Cable gland       3 plugs         Material of terminal box       Tarmanization of a set from to Cable gland       3 plugs       3 plugs         Material of terminal box       M6       State for the set for the												25 mm <sup>2</sup>							
Type of terminal box type of terminal box Contact screw thread       TBI L00       Cable entry Cable entry Cable gland       2xM50x1,5-1xM16x1,5         Contact screw thread       M6       3 plugs       3 plugs         Schee gland       3 plugs       3 plugs         Lul_n=locked rotor current / current nominal MMA, = locked rotor torque / nominal torque / nominal MMA, = locked rotor torque / torque nominal MMA, = locked rotor torque / torque nominal MMA, = locked rotor torque / torque nominal 2) at rated power / at full load       3) value is valid only for D0L operation with motor design IC411         Tarannetia, 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 utilize mode of design patent are reserved. Transmittar, reproduction, dissemination and/or editing of this document as well as utilization of the dore were will be held liable for payment of damages. All rights created by patent grant or registration are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration are reserved. Transmittar, reproduction, dissemination and/or editing of this document are vereeved.       Inchnical data sheet terminal back or torque for damages. All rights created by patent grant or registration are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utilize mode of design patent are reserved. Transmittar, reproduction, dissemination and/or editing of this document as well as utilization of is contents and communication the reserved to rede	Material of terminal box						Aluminium	Cable diameter from to			to	27 mm - 35 mm							
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Iulia - locked rotor current / current nominal Mu/Ma, - locked rotor current / current nominal Mu/Ma, - locked rotor torque / rominal torque       1) Luem according to DNISO 281 10/2010 2) at rated power / at full load       3) Value is valid only for DOL operation with motor design IC411         Mu/Ma, - locked rotor torque / rominal torque       2) at rated power / at full load       3) Value is valid only for DOL operation with motor design IC411         Mu/Ma, - locked rotor torque / nominal torque       2) at rated power / at full load       3) Value is valid only for DOL operation with motor design IC411         Mu/Ma, - break down torque / nominal torque       2) at rated power / at full load       3) Value is valid only for DOL operation with motor design IC411         Marges.All rights created by patent gran or registration of a utility model or design patent are reserved. I 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 gran 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 an resure of a utility and of a dual on registration values.       Link documents values.         NLVM       Document type       Document type       Document status Released       Document tatus Released       Released         Document titile       Document titile	Contact screw thread						M6		Cab	le gland									
MJ/Mg = locked rotor torque / torque nominal Mg/Mg = break down torque / nominal torque       2) at rated power / at full load         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. I 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 admages. All rights created by patent grant or registration of a utility model or design patent are reserved. I 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 admages. All rights created by SPC       Approved by Created automatically       Technical data are subject to change! There may be diverse       Link documents well as utilization of a utility model or design patent are reserved.         NLVM       Document type       Document typ	Contact	screw thi	reaa				Cable giana									3 plugs			
Mill Mile a locked rotor torque / torque nominal Mill Mile a break down torque / nominal torque       2) at rated power / at full load         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. I Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express outhorization 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. I Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express outhorization 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.       Approved by Created by Created automatically       Technical reference       Created by SPC       Approved by Created automatically       Technical data sheet       Link documents values.         NLVM       Document type       Document type       Document status       Released       Released       Released       Induction         Output       Torchical data sheet       Technical data sheet       Technical communication       Document type       Document type       Document type       Document type       Induction       Relea																			
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