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

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U      L      P      P      I      n	Remarks											Sa	fe Are	ea						
IND    IND    IAI    IND    I	Electric	al dat	а									-/-								
230      4      50      4.00      7      1.20      233      3.3      8.2.9      80.5      0.85      0.77      0.65      8.3      3.3      4.2.9      [E]        4600      Y      60      4.55      -4.0      7.80      33.3      8.2.9      80.5      0.85      0.77      0.65      8.3      3.3      4.2.8      [E]      1.80      83.1      82.0      80.5      0.85      0.77      0.65      8.3      3.3      4.2.8      [E]      1.80      80.5      0.85      0.77      0.65      8.3      3.3      4.2      [E]      1.80      1.80      80.8      0.77      0.65      8.3      3.3      4.2      [E]      1.80 <td>U</td> <td>Δ/Υ</td> <td>f</td> <td>Р</td> <td>Р</td> <td>I</td> <td>n</td> <td>М</td> <td></td> <td>η 3)</td> <td></td> <td></td> <td>coso</td> <td>Ф<sup>3)</sup></td> <td>   </td> <td>I<sub>A</sub>/I<sub>N</sub></td> <td><math>M_A/M_N</math></td> <td>M<sub>K</sub>/M<sub>N</sub></td> <td>IE-CL</td>	U	Δ/Υ	f	Р	Р	I	n	М		η 3)			coso	Ф <sup>3)</sup>		I <sub>A</sub> /I <sub>N</sub>	$M_A/M_N$	M <sub>K</sub> /M <sub>N</sub>	IE-CL	
200    A    50    4.00    ·/·    14.20    2925    13.0    83.1    82.9    80.5    0.85    0.77    0.65    8.3    3.3    4.2    IE1      400    Y    50    4.00    -/    8.00    0.85    0.77    0.65    8.3    3.3    4.2    IE1      400    Y    50    4.50    -/·    7.80    353    1.2    84.5    8.0    0.05    0.05    0.07    0.05    8.3    3.3    4.6    IE1      4000    Y    50    4.50    -/    7.80    9.55    0.077    0.05    8.3    3.3    4.2    IE1    IE1<	[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	4 2	4	I <sub>I</sub> /I <sub>N</sub>	$T_I/T_N$	T <sub>B</sub> /T <sub>N</sub>		
Image: Note: Note									1										1	
440    V    60    4.55    4.4    7.80    323    12.3    84.5    84.2    82.1    0.87    0.82    0.71    0.0    3.3    4.6    F      N102    M102									1											
Intege      Intege<																				
Environmental conditions : -20 °C - 40 °C / 1000 m      Locked rotor time (hot / cold) : 4.2 s   8.2 s        Mechanical data      Sound level (SFL / SFL) at 50Hz/JG0Hz      69 / 81 dB(A) <sup>2,3</sup> 73 / 82 dB(A) <sup>2,3</sup> 73 / 82 dB(A) <sup>2,3</sup> 7 / 10 mmail class      F        Barring DE   NDE      6206 22 C3      6206 22 C3      Duty type      51	400		00	7.55	1	7.00	5555	12.5		04.2	02.1	0.07	0.0			5.0	5.5	4.0		
Mechanical data      Sound level (SPL / SWL) at S0H2(60Hz    69 / 81 dB(A) <sup>21/3</sup> 73 / 85 dB(A) <sup>21/3</sup> Wibration severity grade    A      Moment of intria    0.0007 kg m <sup>1</sup> Thermal class    F      Bearing //Etime    Direction of rotation    bidirectional      Lows-Result of Coupling operation    40000 h    32000 h      Regressing device    Without    Net weight of the motor (M 83)    25 kg      Control (grant finicit)    Standard paint finicit (C // Type of bearing    Preloaded bearing DE    Color, paint shade    RAL7030      Condensate dainage holes    Without    Motor protection    (0) 3 PTC thermistors - for tripping (2 terminals)      Condensate dainage holes    Without    Motor protection    (0) 3 PTC thermistors - for tripping (2 terminals)      Terminal box    Terminal box    Terminal box    11 mm - 21 mm      Terminal box    TB1 FDO    Cable dameter from to    11 mm - 21 mm      Type of terminal box    TB1 FDO    Cable gland    3 plugs      Terminal box    TB1 FDO    Cable gland    3 plugs      Terminal box    Terminal box    Terminal box    Terminal box    Terminal box    Terminal box    Ter	IM B3 / IM 1001 FS 112 M						IP55	UKCA	IEC/EN	60034		IEC, DIN,	ISO, VDI	E, EN						
Number of the field o			Enviror	nmental co	onditions :	-20 °C - +	+40 °C / 1000 m Locke					Locked r	ed rotor time (hot / cold) : 4.2 s   8.2 s							
Moment of inertial      0.0067 kg m³      Thermal class      F        Beering DE (NDE      6206 2Z C3      6206 2Z C3      Dury type      S1        bearing Methine      Direction of notation      bidirectional      June 1000 M      June 1000 M        State Part (PC coupling operation      40000 h      32000 h      Frame material      aluminut        Regressing device      Without      Net weight of the motor (M 83)      25 kg      Color paint shade      RAL7030        Condensate drainage holes      Without      Color paint shade      RAL7030      RAL7030        Condensate drainage holes      Without      Without      Matcr cors-sectional area      4 mm²        Terminal box      Aluminism      Cable dameter from to      11 mm - 21 mm        Type of terminal box      Aluminism      Cable eating and the section of notation section and the section and	Mecha	nical d	ata																	
Moment of inertial      0.0067 kg m³      Thermal class      F        Beering DE (NDE      6206 2Z C3      6206 2Z C3      Dury type      S1        bearing Methine      Direction of notation      bidirectional      June 1000 M      June 1000 M        State Part (PC coupling operation      40000 h      32000 h      Frame material      aluminut        Regressing device      Without      Net weight of the motor (M 83)      25 kg      Color paint shade      RAL7030        Condensate drainage holes      Without      Color paint shade      RAL7030      RAL7030        Condensate drainage holes      Without      Without      Matcr cors-sectional area      4 mm²        Terminal box      Aluminism      Cable dameter from to      11 mm - 21 mm        Type of terminal box      Aluminism      Cable eating and the section of notation section and the section and	Sound I	evel (SF	PL / SWL)	at 50Hz[60	)Hz 69	/ 81 dB(A) <sup>2</sup>	<sup>() 3)</sup> 73 /	85 dB(A) 2) 3)	Vibr	ation seve	erity gra	ide					А			
bearing lifetime      Direction of rotation      biddirectional        base_negree      40000 h      32000 h      Frame material      aluminum        Regressing device      Without      Net weight of the motor (MB 3)      25 kg        Gressen single      -/-      Coolding (gaint finish)      25 kg        Type of bearing      Preloaded bearing DE      Cool, paint shade      RAL7030        Condensate drainage holes      Without      Motor protection      (8) 3 PTC thermistors - for tripping (2 terminals)        External earthing terminal      Without      Method of cooling      K411 - self vertilated, surface cooled        Terminal box      Terminal box      Aluminium      Cable diameter from to      11 mm - 21 mm        Tope of terminal box      Task regression all meters      State Paint      State Paint      State Paint        Vibe- backdorbier ormeth carrent entrified      Task regression all meters      State Paint      State Paint      State Paint        Vibe- backdorbier ormeth carrent entrified      Task regression all motor design K411      State Paint      State Paint      State Paint        Vibe- backdorbier ormeth carrent entrified      Task regression all motor design K411      State Paint																				
table from the coupling operation      40000 h      32000 h      Frame material      aluminum        Regressing device      Without      Net weight of the motor (MB B3)      25 kg        Gressen inple      -/      Coating (gaint finish)      Standard paint finish C2        Type of bearing      Preloaded bearing DE      Color, paint shade      RAL7030        Condensate drainage holes      Without      Motor pretection      (B) 3 PIC thermistors - for tripping (2 terminals)        External earthing terminal      Without      Motor pretection      (Call - self ventilated, surface cooled)        Terminal box      Aluminium      Cable diameter from to      11 mm - 21 mm        Type of terminal box      TBI FDD      Cable gland      3 plugs        VAA indexf motor correction      M4      Cable gland      3 plugs        VAA indexf motor correction correction corrections in the V21 to 2000      3 plugs      3 plugs	Bearing	DE   NI	DE		6	5206 2Z C3	5													
Regressing device  Without  Net weign of the motor (IM 83)  25 kg    Greese inpipe	bearing	g lifetin	ne				5 51													
Regressing device  Without  Net weign of the motor (IM 83)  25 kg    Greese inpipe	L10mh Fad min for coupling operation 40000 h						32000 h Frame material						aluminum							
Type of baring  Preloaded bearing DE  Color, paint shade  RAL7030    Condensate drainage holes  Without  Motor protection  (B) 3 PTC thermistors - for tripping (2 terminals)    External earthing terminal  Without  Method of cooling  IC411 - self ventilated, surface cooled    Terminal box  Aluminium  Cable diameter from to  11 mm - 21 mm    Type of terminal box  TB1 F00  Cable entry  2xM32x1,5-1xM16x1,5    Contact screw thread  M4  Cable gland  3 plugs							Without Net weight of the mc				otor (IM B	r (IM B3) 25 kg								
Condensate drainage holes  Without  Motor protection  (D) 3 PTC thermistors - for tripping (2 terminals)    External earthing terminal  Without  Method of cooling  IC411 - self ventilated, surface cooled    Terminal box  Terminal box  Aluminium  Gable diameter from to  11 mm - 21 mm    Type of terminal box  TB1 F00  Cable diameter from to  11 mm - 21 mm    Type of terminal box  TB1 F00  Cable gland  3 plugs    Contact screw thread  M4  Cable gland  3 plugs	Grease	nipple					-/- Coating (paint finish)						Standard paint finish C2							
External earthing terminal  Without  Method of cooling  IC411 - self ventilated, surface cooled    Terminal box  Terminal box  A mm?    Material of terminal box  Aluminium  Gable diameter from to  11 mm - 21 mm    Type of terminal box  TB1 F00  Cable entry  2xM32x1,51-XM16x1,5    Contact screw thread  M4  Cable entry  2xM32x1,51-XM16x1,5    Contact screw thread  M4  Cable entry  2xM32x1,51-XM16x1,5    Lid locked retor current / current nominal MAA, - lock door more more from many of the door more design K411  3 plugs  3 plugs	Type of bearing Prel						baded bearing DE Color, paint shade				hade		RAL7030							
Image: Section and the section	Condensate drainage holes						Without Motor protection					(B) 3 PTC thermistors - for tripping (2 terminals)								
Terminal box position    top    Max. cross-sectional area    4 mm²      Material of terminal box    Aluminium    Cable diameter from to    11 mm - 21 mm      Type of terminal box    TBI FO0    Cable entry    2xM32x1,5-1xM16x1,5      Contact screw thread    M4    Cable entry    2xM32x1,5-1xM16x1,5      Contact screw thread    M4    Cable gland    3 plugs      UA_m-locked rotor current / current nominal MAM.    1) Lues. according to DIN NO 281 10/2010    3) Value is valid only for DOL operation with motor design IC411      MAM. = locked rotor current / current nominal MAM. = locked rotor rouge forque nominal MAM. = bask down torque / forninal torque    1) Lues. according to DIN NO 281 10/2010    3) Value is valid only for DOL operation with motor design IC411      MAM. = locked rotor rouge forque nominal MAM. = bask down torque / forninal torque    1) Lues. according to DIN NO 281 10/2010    3) Value is valid only for DOL operation with motor design IC411      Transmital, reproduction, dissemination and/or editing of this document as well as utilization of ta suffic created by patrix grant or registration of a valig mode of design patrix are normed.    Ink document grant or design IC411      NLVM    Technical reference    Created by    Approved by    Technical data sheet    Document true    Ink documents      NLVM    Document tile    Doc	External earthing terminal						Without Method of cooling							IC	411 - se	elf ven	itilated, s	urface co	poled	
Material of terminal box  Aluminum  Cable diameter from to  11 mm - 21 mm    Type of terminal box  TB1 F00  Cable entry  2xM32x1,5-1xM16x1,5    Contact screw thread  M4  Cable gland  3 plugs	Termin	al box																		
Material of terminal box  Aluminum  Cable diameter from to  11 mm - 21 mm    Type of terminal box  TB1 F00  Cable entry  2xM32x1,5-1xM16x1,5    Contact screw thread  M4  Cable gland  3 plugs	Termina	al box p	osition				top		Max	. cross-se	ctional	area					4 mm <sup>2</sup>			
Contact screw thread  M4  Cable gland  3 plugs    Lul_a = locked rotor current / current nominal MuMa, = locked rotor reque / nominal torque / nominal 2) at rated power / at full load  3) Value is valid only for DOL operation with motor design IC411 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.  Inchnical reference  Created by SPC  Approved by Created automatically  Technical reference  Inchnical reference  Include automatically    NLVM  Document type  SPC  Created automatically  Document status released  Include ond roting plot  Include output full page automatically  Inc												to	to 11 mm - 21 mm							
Lula, - locked rotor current / current nominal    1) Lissa according to DN ISO 281 10/2010    3) Value is valid only for DOL operation with motor design IC411      Mu/M_n = break down torque / nominal torque    2) at rated power / at full load    3) Value is valid only for DOL operation with motor design IC411      Mu/M_n = break down torque / nominal torque    2) at rated power / at full load    3) Value is valid only for DOL operation with motor design IC411      Mu/M_n = break down torque / nominal torque    2) at rated power / at full load    3) Value is valid only for DOL operation with motor design IC411      Mu/M_n = break down torque / nominal torque    2) at rated power / at full load    3) Value is valid only for DOL operation with motor design IC411      Mu/M_n = break down torque / nominal torque    2) at rated power / at full load    3) Value is valid only for DOL operation with motor design IC411      Mu/M_n = break down torque / nominal torque    2) at rated power / at full load    3) Value is valid only for DOL operation with motor design IC411      Mu/M_n = break down torque / nominal torque    Technical reference    Created by patent grant or registration of a utility model or design patent are reserved.    Inic document status      Responsible department    Technical data sheet    Document status    Released    Inic document status      Document title    11    11    Document number    TDS-240614-120931													2xM32x1,5-1xM16x1,5							
Mi/Mile = locked rotor torque / torque nominal Mi/Mile = 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.      Responsible department IN LVM    Technical reference    Created by SPC    Approved by Created automatically    Technical data are subject to changel There may be discrepancies between calculated and rating plate values.    Link documents      Document type    Document type    Document type    Document status    Released      Technical data sheet    Released    Document number    TDS-240-614-120931    Ianguage      Restricted    D22+D47    Revision    Creation date    Language    Page							-									1	3 plugs			
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS												
Motor type :1AV1112A	SIMOTICS GP - 112 M - IM B3 - 2p											
Special design												
	aracter for export outside	e the EEA (see EU	D47	TR CU pro	duct safety ce	ertificate EAC for th	ne Eura	sian Custon	ns Union			
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