

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



Motor type : 1CV2072B

SIMOTICS XP - 71 M - IM B3 - 4p

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

Remarks

Electrical data II 3G Ex ec IIC T3 Gc
-/-

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ 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 _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	0.25	-/-	1.33	1395	1.7	68.5	68.4	64.2	0.69	0.59	0.46	3.7	2.4	2.5	IE2
400	Y	50	0.25	-/-	0.76	1395	1.7	68.5	68.4	64.2	0.69	0.59	0.46	3.7	2.4	2.5	IE2
460	Y	60	0.29	-/-	0.75	1695	1.6	70.0	69.7	65.9	0.69	0.60	0.47	4.1	2.4	2.6	IE2
460	Y	60	0.25	-/-	0.70	1715	1.4	70.0	68.5	63.6	0.64	0.55	0.43	4.4	2.8	3.1	IE2
IM B3 / IM 1001		FS 71 M				IP56			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 39.1 s 49.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	44 / 55 dB(A) ^{2) 3)}	47 / 58 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0008 kg m ²		Thermal class	F
Bearing DE NDE	6202 2Z C3	6202 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	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	12 kg
Grease nipple	-/-		Coating (paint finish)	Special paint finish for offshore applications C5
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	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 ...	9 mm - 17 mm
Type of terminal box	TB1 D01	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4		

Notes:
I_A/I_N = locked rotor current / current nominal
M_K/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

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 		
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	S04	Special paint finish for offshore applications C5
H22	IP 56 degree of protection	S06	Polyurethane top coat in RAL 7030

Notes:

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