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

Motor type : 1CV3072B **SIMOTICS SD - 71 M - IM B14 - 4p**

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

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
230	Δ	50	0.25	-/-	1.19	1395	1.7	73.5	73.7	70.4	0.72	0.63	0.50	4.2	2.5	2.6	IE3
400	Y	50	0.25	-/-	0.68	1395	1.7	73.5	73.7	70.4	0.72	0.63	0.50	4.2	2.5	2.6	IE3
460	Y	60	0.28	-/-	0.69	1695	1.6	73.4	73.3	70.0	0.72	0.63	0.51	4.5	2.5	2.6	IE3
460	Y	60	0.25	0.33	0.63	1715	1.4	73.4	72.3	68.0	0.68	0.59	0.47	4.9	2.9	3.1	MG1

IM B14 / IM 3601	FS 71 M	13 kg	IP55	IEC/EN 60034	IEC, EN, UL, CSA, NEMA MG1-12-12	kVA Code: K

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 54.9 s | 63.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	44.0 / 55.0 dB(A) 2)	47.0 / 58.0 dB(A) 2)	External earthing terminal	No
Moment of inertia	0.0009 kg m²		Vibration severity grade	A
Bearing DE | NDE	6202 2Z C3	6202 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 D11	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

Notes:

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) L10mh 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.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

SIEMENS

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