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

Motor type : 1AV2094C **SIMOTICS GP - 90 L - IM B3 - 6p**

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	1.10	-/-	5.10	935	11.2	78.1	79.3	77.7	0.70	0.61	0.49	4.4	2.2	2.6	IE2
400	Y	50	1.10	-/-	2.90	935	11.2	78.1	79.3	77.7	0.70	0.61	0.49	4.4	2.2	2.6	IE2
460	Y	60	1.27	-/-	3.05	1135	10.7	75.0	76.0	74.6	0.70	0.62	0.50	4.4	2.1	2.6	IE1
460	Y	60	1.10	-/-	2.80	1145	9.2	75.0	75.0	72.6	0.66	0.57	0.45	4.8	2.4	3.1	IE1

IM B3 / IM 1001	FS 90 L	16 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN

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

Locked rotor time (hot / cold) : 20.6 s | 30.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	43.0 / 55.0 dB(A) 2)	46.0 / 58.0 dB(A) 2)
Moment of inertia	0.0040 kg m²	
Bearing DE | NDE	6305 2Z C3	6204 2Z C3
bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Lubricants	Unirex N3	
Regreasing device	No	
Grease nipple	-/-	
Type of bearing	Locating bearing DE	
Condensate drainage holes	Yes	

External earthing terminal	No
Vibration severity grade	A
Insulation	155(F) to 130(B)
Duty type	S1
Direction of rotation	bidirectional
Frame material	aluminum
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(A) without (Standard)
Method of cooling	IC418 - without fan and without housing fan

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 E00	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

document type		document status	customer	
datasheet		released		
title		document number		
1LE1001-0EC42-2AA4-Z				
B02+F90+H03+L20+L22+R11+Y58		rev.	creation date	language / Page
		01	2021-04-22 21:02	en / 1/2

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

Motor type : 1AV2094C **SIMOTICS GP - 90 L - IM B3 - 6p**

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L22	Bearing design for increased cantilever forces
F90	Without external fan and without external fan cover	R11	Terminal box rotated through 90°, cable entry from NDE
H03	Condensation drain holes in end shield	Y58	Non-standard cylindrical shaft extension, DE
L20	Locating bearing, DE		

Notes:

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	document type: datasheet		document status: released	customer	
	title: 1LE1001-0EC42-2AA4-Z B02+F90+H03+L20+L22+R11+Y58		document number		
		rev.: 01	creation date: 2021-04-22 21:02	language: en	