

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



Motor type : 1AV2205A

SIMOTICS GP - 200 L - IM B3 - 2p

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

Remarks

Electrical data

Safe Area

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	
380	Δ	50	37.00	-/-	69.00	2960	119.0	92.5	93.0	92.7	0.88	0.85	0.77	7.4	2.7	3.5	IE2
660	Y	50	37.00	-/-	40.00	2960	119.0	92.5	93.0	92.7	0.88	0.85	0.77	7.4	2.7	3.5	IE2
440	Δ	60	41.50	-/-	67.00	3560	111.0	93.0	93.2	92.6	0.88	0.85	0.78	7.3	2.9	3.5	IE2
440	Δ	60	37.00	-/-	60.00	3565	99.0	92.4	92.4	91.5	0.87	0.83	0.75	8.1	3.3	3.8	IE2
IM B3 / IM 1001		FS 200 L		178 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 16 s | 29.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	78.0 / 85.0 dB(A) ²⁾	82.0 / 89.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.1500 kg m ²		Vibration severity grade	A
Bearing DE NDE	6212 Z C3	6212 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		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	25.0 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Type of terminal box	TB1 L00	Cable entry	2xM50x1,5
Contact screw thread	M6	Cable gland	2 plugs

Notes:

I _A /I _N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
DI MC LVM		DT Configurator					
	document type			document status		customer	
	datasheet			released			
	title			document number			
	1LE1001-2AA53-3AA4-Z						
© Siemens AG 2021	D22			rev.	creation date	language	Page
				01	2021-04-21 13:45	en	1/2

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



Motor type : 1AV2205A

SIMOTICS GP - 200 L - IM B3 - 2p

Special design

D22 motor without CE character for export outside the EEA (see EU regulation 640/2009)

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
	document type datasheet			document status released		customer		
	title 1LE1001-2AA53-3AA4-Z			document number				
© Siemens AG 2021	D22			rev. 01	creation date 2021-04-21 13:45		language en	Page 2/2