

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



Motor type : 1CV2252A

SIMOTICS SD - 250 M - IM B3 - 2p

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]	$\eta^{3)}$			$\cos\varphi^{3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_i/I_N	T_i/T_N	T_B/T_N	
400	Δ	50	55.00	-/-	97.00	2970	177.0	93.2	93.3	92.4	0.88	0.85	0.78	6.8	2.3	3.1	IE2
690	Y	50	55.00	-/-	56.00	2970	177.0	93.2	93.3	92.4	0.88	0.85	0.78	6.8	2.3	3.1	IE2
460	Δ	60	62.00	-/-	94.00	3570	166.0	93.0	92.8	91.6	0.89	0.87	0.80	6.8	2.3	3.1	IE2
460	Δ	60	55.00	-/-	83.00	3575	147.0	93.0	92.5	91.0	0.89	0.86	0.78	7.4	2.4	3.5	IE2
IM B3 / IM 1001		FS 250 M		360 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 21 s | 37.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76.0 / 89.0 dB(A) ²⁾	80.0 / 94.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.4000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6215 Z C3	6215 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	AERO SHELL GREASE 22		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	120.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34.0 mm - 42.0 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	2 glands, 2 plugs

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. 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 1LE1501-2CA23-4AC4-Z B02+D03+L51+Q02+R18	document number					
© Siemens AG 2021		rev. 01	creation date 2021-04-23 16:13	language en	Page 1/2		

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



Motor type : 1CV2252A

SIMOTICS SD - 250 M - IM B3 - 2p

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Q02	Anti-condensation heating for 230 V (2 terminals)
D03	Minimum ambient temperature -40°C	R18	Cable gland metal, max. number
L51	Bearing insulation NDE		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 92W

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 1LE1501-2CA23-4AC4-Z B02+D03+L51+Q02+R18	document number					
© Siemens AG 2021		rev. 01	creation date 2021-04-23 16:13	language en	Page 2/2		