

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

Motor type: SD100 FS: 324T - 4p - 40 hp -

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

Electrical data

Class I Division 2 Gr. A, B, C or D, T3 Class II, Division 2 Gr. F or G

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque	T _A /T _N	T _k /T _N
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4	[lb-ft]	LRT [%]	BDT [%]	
460	Δ	60	40.00	30.00	1,780	46.00	36.00	26.50	15.00	290.0	94.1	94.1	94.3	86.0	83.0	75.0	118.0	180	231	
400	Δ	50	30.00		1,487	39.90	31.70	24.50	16.60	337.5	93.0	93.3	92.9	85.1	80.1	69.4	106.0	187	324	
Frame Type: 324T			Type of constr.: (A) Foot mounted - End shield										Motor Prot.:(A) Without Protection			NEMA Des.: B		S.F.: 1.15		
Mtr. WT:632 lbs			Insulation Class.:Standard Class F Insulation							Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m			kVA: G		IP 55			

Mechanical data

Sound level (SPL / SWL) at 60 Hz				64.0 dB(A) / 75.0 dB(A)				Thickener				Polyurea											
Octave Band Center Frequencies Hertz								Safe Stall Time Hot								22 s							
2505001000200040008000Hz								Safe Stall Time Cold								45 s							
SPL@3				52.059.059.057.053.050.0dB(A)				Frame material								cast iron							
Moment of inertia								9.4 Lb-ft²								Color, paint shade				Standard Paint - RAL7030			
Ext Load Inertia Capability:								189.0 Lb ft²								Coating (paint finish)				Standard Alkyed + Epoxy (C2)			
Bearings												Ventilation Type											
Bearing DE NDE				6312 Z C3 S0				6312 Z C3 S0				Method of cooling				TEFC							
Bearing_Type				Ball Bearing				Ball Bearing				Direction of rotation				Bidirectional							
AFBMA:				60BC03JP30				60BC03JP30				Fan Material				Polypropylen ESD							
Grease												VFD				CT: 20:1 VT: 20:1							
Capacity				5.5 oz				5.5 oz				Space heaters				without							
Grease Type:								Exxon Mobile EM								Brake:				without			

Terminal box

Lead Wire Connection			3 LEAD - DELTA		Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L2	L3	Connected together	Material of terminal box	Cast Iron
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----	T1	T2	T3	----		

Notes:

I_L/I_N = locked rotor current / current nominal
M_L/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque

3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

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 actual data values			
	document type datasheet		document status released		customer			
	title 1LE2321-3AB11-2AA3		document number					
	© Siemens AG 2023		rev. 01	creation date 2023-01-24 13:38		language en	Page 1/1	