

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

Motor type: SD100 IEEE FS: 145T - 4p - 2 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]					Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T _A /T _N LRT [%]	T _k /T _N BDT [%]	
						4/4	3/4	1/2	0	LRC	4/4	3/4	2/4	4/4	3/4	2/4				
460	Y	60	2.00	1.50	1,740	2.80	2.30	1.90	1.50	24.0	86.5	87.2	86.0	77.3	70.8	57.8	6.0	322	393	
Frame Type: 145T			Type of constr.: (G) Round body - C-Face										Motor Prot.:(A) Without Protection			NEMA Des.: B		S.F.: 1.15		
Mtr. WT:75 lbs			Insulation Class.:Standard Class F Insulation							Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m			kVA: L		IP 55			

Mechanical data																			
Sound level (SPL / SWL) at 60 Hz				50.0 dB(A) / 62.0 dB(A)				Thickener		Polyurea									
Octave Band Center Frequencies Hertz								Safe Stall Time Hot				14 s							
250		500		1000		2000		4000		8000		Hz		Safe Stall Time Cold		22 s			
SPL@3		37.0		40.0		49.0		45.0		37.0		31.0		dB(A)		Frame material		cast iron	
Moment of inertia				0.2 Lb-ft²				Color, paint shade				Standard Paint - RAL7030							
Ext Load Inertia Capability:				11.0 Lb ft²				Coating (paint finish)				Standard Alkyed + Epoxy (C2)							
Bearings								Ventilation Type											
Bearing DE NDE				6205 Z C3 S0				6205 Z C3 S0				Method of cooling				TEFC			
Bearing_Type				Ball Bearing				Ball Bearing				Direction of rotation				Bidirectional			
AFBMA:				25BC02JP30				25BC02JP30				Fan Material				Polypropylen ESD			
Grease								VFD				CT: 20:1 VT: 20:1							
Capacity				0.1 oz				0.1 oz				Space heaters				without			
Grease Type:				Exxon Mobile EM				Brake:				without							

Terminal box				
Lead Wire Connection			3 LEAD - WYE	
Voltage	L1	L2	L3	Connected together
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----	T1	T2	T3	----

Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Material of terminal box	Cast Iron
Cable entry	.75" NPT

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

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IN LVM		SPC					
	document type		document status		customer		
	datasheet		released				
	title		document number				
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