

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

Motor type: SD200 NEMA Premium Next Generation FS: 509S - 2p - 400 hp -

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

Electrical data

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	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			4/4	3/4	2/4	4/4	3/4	2/4			
Frame Type: 509S			Type of constr.:									Motor Prot.:			NEMA Des.:			S.F.: 1.15		
Mtr. WT: lbs			Insulation Class.:					Temp. Rise Cl.: B				Amb. Temp.: + 40 to °C @1000 m			kVA:			IP		

Mechanical data

Sound level (SPL / SWL) at 60 Hz							dB(A) / dB(A)		Thickener		Polyurea				
Octave Band Center Frequencies Hertz								Safe Stall Time Hot				s			
250 500 1000 2000 4000 8000 Hz								Safe Stall Time Cold				s			
SPL@3								dB(A)		Frame material		Cast iron			
Moment of inertia								Lb-ft²		Color, paint shade					
Ext Load Inertia Capability:								Lb ft²		Coating (paint finish)					
Bearings												Ventilation Type			
Bearing DE NDE						6316 Z C3 S0		6316 Z C3 S0		Method of cooling				TEFC	
Bearing_Type						Ball Bearing		Ball Bearing		Direction of rotation					
AFBMA:						80BC03JP3		80BC03JP3		Fan Material					
Grease												VFD		CT: VT: 20:1	
Capacity						9 oz		9 oz		Space heaters				without	
Grease Type:												Brake:		-/-	

Terminal box


Lead Wire Connection					Terminal box position
Voltage	L1	L2	L3	Connected together	Material of terminal box
					Cable entry
					-/-

Notes:		3) Value is valid only for DOL operation with motor design IC411
I _L /I _N = locked rotor current / current nominal		2) at rated power / at full load
M _L /M _N = locked rotor torque / torque nominal		
M _b /M _N = break down torque / nominal torque		

Responsible department IN LVM	Technical reference	Created by SPC	Approved by	Technical data are subject to change! There may be discrepancies			
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Main terminal diagram

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Responsible department IN LVM	Technical reference	Created by	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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