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

Motor type: **SD200 NEMA Premium Next Generation** **FS: 5011S - 2p - 500 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] 4/4	3/4	1/2	0	LRC	Nom. Eff Load [%] 4/4	3/4	2/4	Pwr. Factor Load [%] 4/4	3/4	2/4	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]

Frame Type: 5011S	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)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3							dB(A)

Moment of inertia	Lb-ft²
Ext Load Inertia Capability:	Lb ft²

Bearings

Bearing DE | NDE	6316 Z C3 S0	6316 Z C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	80BC03JP3	80BC03JP3

Grease

Capacity	9 oz	9 oz
Grease Type:		

Thickener	Polyurea
Safe Stall Time Hot	s
Safe Stall Time Cold	s
Frame material	Cast iron
Color, paint shade	
Coating (paint finish)	

Ventilation Type

Method of cooling	TEFC
Direction of rotation	
Fan Material	
VFD	CT: VT: 20:1
Space heaters	without
Brake:	-/-

Terminal box

Lead Wire Connection

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

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

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

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

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Main terminal diagram

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

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