

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

Motor type: FS: 4p - 3 hp -

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

Electrical data

Class I, Div 1 Gr. C&D; Class II, Div1, Gr. F&G, T3C

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				
460	Y	60	3.00		1,760	4.00	3.30	2.70	2.10	33.0	89.5	89.4	87.8	78.5	71.7	59.5	9.0	233	356	
230	YY	60	3.00		1,760	8.00	6.57	5.38	4.20	66.0	89.5	89.4	87.8	78.5	71.7	59.5	9.0	233	356	
400	Y	50	2.00		1,475	3.30	2.87	2.40	1.98	32.7	85.3	84.0	80.9	74.3	65.1	5.4	7.1	340	663	
200	YY	50	2.00		1,475	6.60	5.74	4.80	3.96	65.5	85.3	84.0	80.9	74.3	65.1	5.4	7.1	340	663	

Frame Type:		Motor Prot.:(G) Thermostats, Klixon type, normally closed	NEMA Des.: B	S.F.: 1.15
Mtr. WT:120 lbs	Insulation Class.:Insulation class F	Temp. Rise Cl.: B	Amb. Temp.: + 55 to -20 °C @1000 m	kVA: K IP IP65

Mechanical data


Sound level (SPL / SWL) at 60 Hz	57.0 dB(A) / 67.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz			Safe Stall Time Hot	17 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	29 s
SPL@3	42.0	46.0	54.0	49.0	43.0	32.0	dB(A)	Frame material	cast iron
Moment of inertia	0.3 Lb-ft ²		Color, paint shade						
Ext Load Inertia Capability:	17.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings			Ventilation Type						
Bearing DE NDE			Method of cooling	TEFC					
Bearing_Type	BALL BEARING	BALL BEARING	Direction of rotation	Bidirectional					
AFBMA:	35BC00JP3	30BC02JP3	Fan Material	Polypropylen ESD					
Grease			VFD	CT: 4:1 VT: 20:1					
Grease Type:	Exxon Mobile EM		Space heaters	without					
			Brake:	-/-					

Terminal box

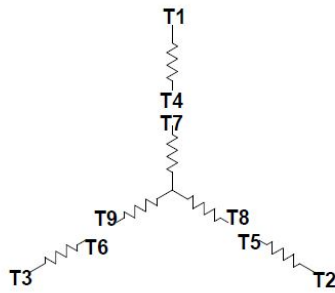
Lead Wire Connection	9 LEAD - WYE				Terminal box position	(3) Mounting - F-1
Voltage	L1	L2	L3	Connected together	Material of terminal box	Cast Iron
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Cable entry	-/-
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		

Notes:

I_r/I_N = locked rotor current / current nominal
M_r/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 I at full load

Responsible department IN LVM	Technical reference	Created by SPC	Approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>			
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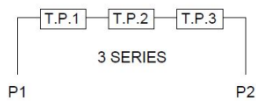
Main terminal diagram



Volts	LINES			CONNECTED TOGETHER	CONN.
	L1	L2	L3		
LOW	T1 T7	T2 T6	T3 T9	T4 T5 T6	YY
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y

Motor protection

THERMOSTATS



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