

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

**Motor type:** FS: 4p - 5 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]	$\Delta/Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T <sub>A</sub> /T <sub>N</sub> LRT [%]	T <sub>k</sub> /T <sub>N</sub> BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4				
460	Y	60	5.00		1,755	6.40	5.20	4.10	3.00	50.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	353	
230	YY	60	5.00		1,755	12.80	10.39	8.25	6.00	100.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	353	
400	Y	50	3.00		1,471	5.03	4.19	3.63	3.08	48.7	86.7	86.4	84.4	71.3	64.3	5.1	10.7	369	509	
200	YY	50	3.00		1,471	10.06	8.38	7.26	6.16	97.4	86.7	86.4	84.4	71.3	64.3	5.1	10.7	369	509	

Frame Type:		Motor Prot.:(G) Thermostats, Klixon type, normally closed	NEMA Des.: B	S.F.: 1.15
Mtr. WT:125 lbs	Insulation Class.:Insulation class F	Temp. Rise Cl.: B	Amb. Temp.: + 55 to -20 °C @1000 m	kVA: J 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	14 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 <sup>2</sup>		Color, paint shade						
Ext Load Inertia Capability:	27.0 Lb ft <sup>2</sup>		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
<b>Bearings</b>			<b>Ventilation Type</b>						
Bearing DE   NDE			Method of cooling	TEFC					
Bearing_Type	BALL BEARING	BALL BEARING	Direction of rotation	Bidirectional					
AFBMA:	35BC00JP3	30BC02JP3	Fan Material	Polypropylen ESD					
<b>Grease</b>			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		

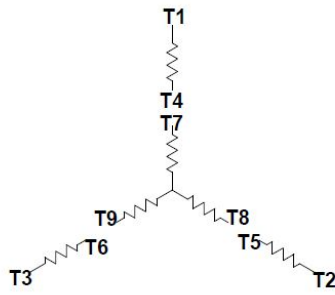
## Notes:

I<sub>r</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>r</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>b</sub>/M<sub>N</sub> = 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>			
	Document type Datasheet	Document status Released		customer			
	Title	Document number					
© ABB 2024	Rev. 01	Creation date 2024-03-20 15:11	Language en	Page 1/1			

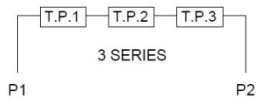
Main terminal diagram



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



Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Responsible department	Technical reference	Created by	Approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>		
	Document type	Created automatically		Document status		
	Wiring diagramm			Released		
	Title			Document number		
				WDS-240320-151128		
		Rev.	Creation date	Language	Page	
		AA	2024-03-20	en	1/1	

