

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

Motor type: FS: 4p - 10 hp -

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

Electrical data

Class I, Div 1 Gr. D T2A

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	10.00		1,755	12.50	10.00	8.00	6.10	81.0	91.7	92.2	91.7	81.7	76.2	63.8	30.0	270	410	
230	YY	60	10.00		1,755	25.00	19.99	16.00	12.20	162.0	91.7	92.2	91.7	81.7	76.2	63.8	30.0	270	410	
400	Y	50	7.50		1,467	12.44	10.42	9.04	8.29	82.0	89.6	89.7	88.2	71.3	63.8	5.0	26.9	233	500	
200	YY	50	7.50		1,467	24.88	20.84	18.08	16.58	164.0	89.6	89.7	88.2	71.3	63.8	5.0	26.9	233	500	

Frame Type:	Type of constr.: (E) Foot mounted - C-Face	Motor Prot.:(A) No winding protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT:200 lbs	Insulation Class.:Insulation class F	Temp. Rise Cl.: B	Amb. Temp.: + 55 to -20 °C @1000 m	kVA: H IP IP65

Mechanical data

Sound level (SPL / SWL) at 60 Hz	57.0 dB(A) / 69.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz			Safe Stall Time Hot	20 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	36 s
SPL@3	37.0	44.0	54.0	53.0	44.0	35.0	dB(A)	Frame material	cast iron
Moment of inertia	0.9 Lb-ft ²		Color, paint shade						
Ext Load Inertia Capability:	51.0 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:	45BC02JP30	40BC02JP30	Fan Material	Polypropylen ESD					
Grease			VFD	CT: 4:1 VT: 20:1					
Capacity	0.3 oz	0.3 oz	Space heaters	without					
Grease Type:	Exxon Mobile EM		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		

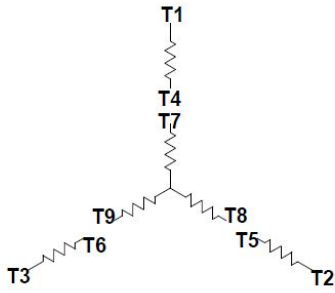
Notes:

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 / at full load

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>			
IN LVM		SPC		Document status		customer	
	Document type		Released		Document number		
	Datasheet						
	Title		Rev.	Creation date	Language	Page	
© ABB 2024		01	2024-03-20 16:09	en	1/1		

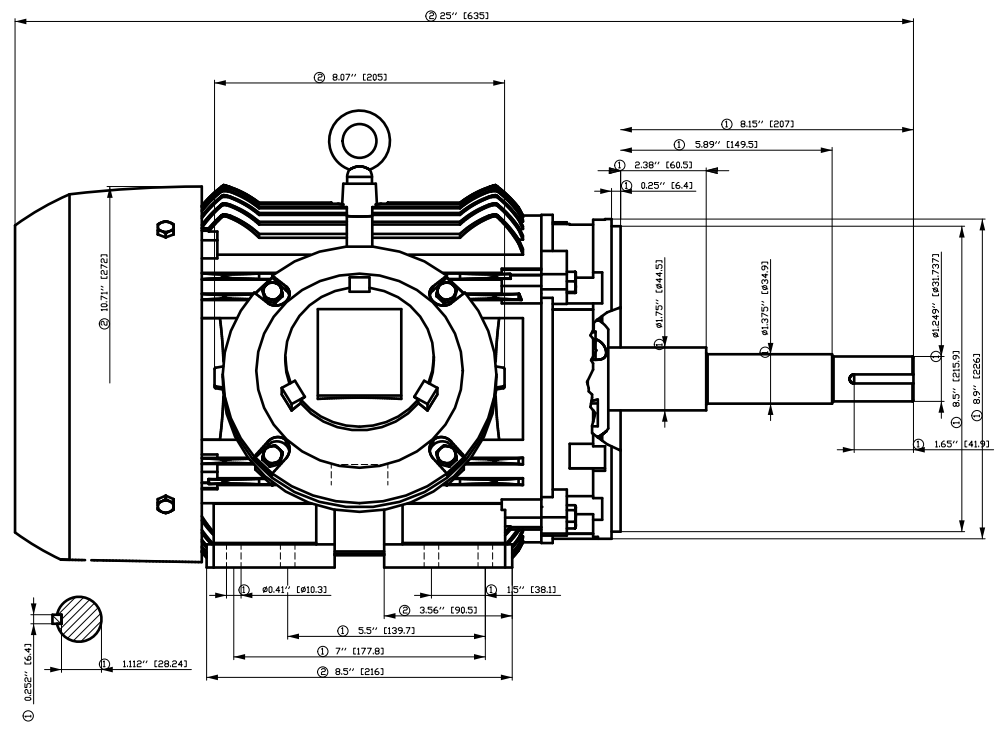
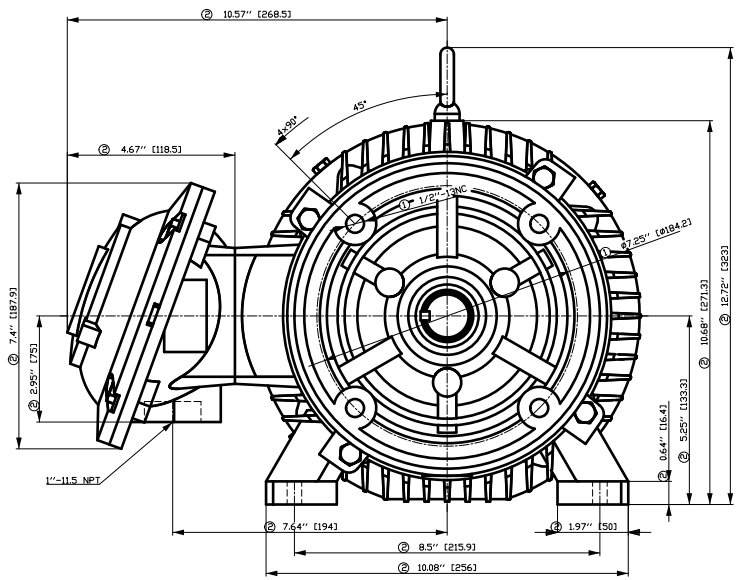
Main terminal diagram



9 LEAD WYE						
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	

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



- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
			E	{ }
	Author	ÖVS Tæ: ^æ@ } *		
	Creator			
	Approval			
	Department			
	Change Order	MLFB		Doc Type
	Doc State	JFCB-H	Item No	Paper Size CH
	Revision	Index RS	Doc No	1st Language ^
				2nd Language â^
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