

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

Motor type: FS: 284T - 2p - 25 hp -

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

Electrical data

Class I Division 1 Groups D

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	Δ	60	25.00		3,525	29.00	22.40	15.90	8.00	183.0	91.7	92.2	92.0	88.0	85.0	80.0	37.0	159	251	
230	$\Delta\Delta$	60	25.00		3,525	58.00	44.80	31.80	16.00	366.0	91.7	92.2	92.0	88.0	85.0	80.0	37.0	159	251	
400	Δ	50	20.00		2,949	27.63	21.52	17.40	12.01	175.8	91.9	89.3	88.0	85.2	81.8	6.8	35.6	150	307	
200	$\Delta\Delta$	50	20.00		2,949	55.26	43.04	34.80	24.02	351.6	91.9	89.3	88.0	85.2	81.8	6.8	35.6	150	307	

Frame Type: PMD_AAA726_001_000_XP1	Type of constr.: (A) Foot mounted - End shield	Motor Prot.:(A) No winding protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT:526 lbs	Insulation Class.:Insulation class F	Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G IP IP65

Mechanical data

Sound level (SPL / SWL) at 60 Hz	72.0 dB(A) / 83.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	16 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	30 s
SPL@3	57.0	65.0	64.0	69.0	65.0	54.0	dB(A)	Frame material	cast iron
Moment of inertia	3.1 Lb-ft ²							Color, paint shade	
Ext Load Inertia Capability:	26.0 Lb ft ²							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Bearings									
Bearing DE NDE	6310 Z C3 S0			6310 Z C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bidirectional	
AFBMA:	50BC03JP30			50BC03JP30			Fan Material	Polypropylen ESD	
Grease									
Capacity	2.6 oz			2.6 oz			VFD	CT: 4:1 VT: 20:1	
Grease Type:	Exxon Mobile EM							Space heaters	without
								Brake:	-/-


Terminal box

Lead Wire Connection					9 LEAD - DELTA					Terminal box position	(3) Mounting - F-1
Voltage	L1	L2	L3	Connected together						Material of terminal box	Cast Iron
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5	---						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 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 1MB2221-2CA11-6AA3	Document number					
© ABB 2024	Rev. 01	Creation date 2024-03-06 19:21	Language en	Page 1/1			

