

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

Motor type: FS: 405T - p - 100 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]					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				
		60	100.00	75.00																
Frame Type: 405T			Type of constr.:								Motor Prot.:					NEMA Des.:		S.F.: 1.15		
Mtr. WT: lbs			Insulation Class.:Standard Class F Insulation							Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m					kVA:		IP 55	


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								
Bearing_Type					Ball Bearing			
AFBMA:								
Grease								
Capacity					oz		oz	
Grease Type:								
Thickener								
Safe Stall Time Hot					s			
Safe Stall Time Cold					s			
Frame material								
Color, paint shade					Standard Paint - RAL7030			
Coating (paint finish)					Standard Alkyed + Epoxy (C2)			
Ventilation Type								
Method of cooling								
Direction of rotation								
Fan Material								
VFD					CT: VT:			
Space heaters					-/-			
Brake:					-/-			

Terminal box


Lead Wire Connection					Terminal box position				
Voltage	L1	L2	L3	Connected together	Material of terminal box				
					Cable entry				

Notes:									
I _L /I _N = locked rotor current / current nominal					3) Value is valid only for DOL operation with motor design IC411				
M _L /M _N = locked rotor torque / torque nominal					2) at rated power / at full load				
M _b /M _N = break down torque / nominal torque									

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Main terminal diagram

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