

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

Motor type:	FS: 405T - p - 100 hp -
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Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data	
Power	100 W
Current	10 A
Voltage	10 V
Resistance	10 Ω
Capacitance	10 F
Inductance	10 H
Frequency	10 Hz
Wavelength	10 m
Speed of light	10 m/s
Speed of sound	10 m/s
Speed of gravity	10 m/s
Speed of electricity	10 m/s
Speed of magnetism	10 m/s
Speed of heat	10 m/s
Speed of light (vacuum)	10 m/s
Speed of light (air)	10 m/s
Speed of light (water)	10 m/s
Speed of light (glass)	10 m/s
Speed of light (diamond)	10 m/s
Speed of light (quartz)	10 m/s
Speed of light (silica)	10 m/s
Speed of light (silicon)	10 m/s
Speed of light (germanium)	10 m/s
Speed of light (selenium)	10 m/s
Speed of light (tellurium)	10 m/s
Speed of light (arsenic)	10 m/s
Speed of light (antimony)	10 m/s
Speed of light (bismuth)	10 m/s
Speed of light (lead)	10 m/s
Speed of light (tin)	10 m/s
Speed of light (copper)	10 m/s
Speed of light (iron)	10 m/s
Speed of light (nickel)	10 m/s
Speed of light (cobalt)	10 m/s
Speed of light (manganese)	10 m/s
Speed of light (zinc)	10 m/s
Speed of light (cadmium)	10 m/s
Speed of light (mercury)	10 m/s
Speed of light (silver)	10 m/s
Speed of light (gold)	10 m/s
Speed of light (platinum)	10 m/s
Speed of light (palladium)	10 m/s
Speed of light (rhodium)	10 m/s
Speed of light (iridium)	10 m/s
Speed of light (osmium)	10 m/s
Speed of light (rhenium)	10 m/s
Speed of light (tungsten)	10 m/s
Speed of light (molybdenum)	10 m/s
Speed of light (niobium)	10 m/s
Speed of light (vanadium)	10 m/s
Speed of light (chromium)	10 m/s
Speed of light (manganese)	10 m/s
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Speed of light (cobalt)	10 m/s
Speed of light (nickel)	10 m/s
Speed of light (copper)	10 m/s
Speed of light (zinc)	10 m/s
Speed of light (cadmium)	10

[illegible]

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	
Modulus of elasticity	200 000 N/mm ²
Yield strength	235 N/mm ²
Tensile strength	410 N/mm ²
Elongation at break	22 %
Impact strength	27 J/cm ²
Hardness	120 HB


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:

$I_{\text{N}}/I_{\text{N}}$ = locked rotor current / current nominal	3) Value is valid only for DOL operation with motor design IC411
$M_{\text{N}}/M_{\text{N}}$ = locked rotor torque / torque nominal	2) at rated power / at full load
$M_{\text{B}}/M_{\text{N}}$ = break down torque / nominal torque	

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Main terminal diagram

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