DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:					
Product line	: W22 IEEE 841 NEMA Premium Efficiency Produ Three-Phase			Product code :	14325513	
	Tillee-Filase		Catalog # :		01009ST3QIE284TC-W22	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (and to the speed)	Output : 10 HP (7.5 kW) Poles : 8 Frequency : 60 Hz Rated voltage : 460 V Rated current : 13.4 A L. R. Amperes : 75.0 A LRC : 5.6x(Code G) No load current : 6.50 A Rated speed : 880 rpm Slip : 2.22 % Rated torque : 59.7 ft.lb Locked rotor torque : 200 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 7.20 sq.ft.lb		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³		: 57s (cold) 32s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 54.0 dB(A) : Direct On Line : 373 lb	
Output	25% 50%	75% 100%	Foundation	on loads		
	89.3 90.3 89.5 89.5		Max. trac	tion	: 535 lb	
Power Factor	88.3 89.1 88.5 88.5 88.5 89.5 88.5 88.5 9 Ower Factor 0.36 0.42 0.61 0.68 0.72 0.77 0.78 0.81 0.39 0.36 0.64 0.61 0.74 0.72 0.80 0.78		Max. com	pression	: 908 lb	
Losses at normative	e operating points (sp					
	P1 (0,9;1,0)	10.3		0.3	10.3	10.3
	P2 (0,5;1,0)	8.5		.5	8.5	8.5
Lossos (%)	P3 (0,25;1,0)	8.4 5.4		.4	8.4 5.4	8.4 5.4
Losses (%)	P4 (0,9;0,5) P5 (0,5;0,5)	3.7		.7	3.7	3.7
	P6 (0,5;0,25)	2.6		.6	2.6	2.6
	P7 (0,25;0,25)	1.8		.8	1.8	1.8
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type	:	Drive end 6311 C3 Inpro/Seal 20000 h 18 g	Non drive end 6211 C3 Inpro/Seal 20000 h 11 g Iobil Polyrex EM			
Notes:						
must be eliminated. (1) Looking the moto (2) Measured at 1m	or from the shaft end. and with tolerance or	f +3dB(A).		e average values		with sinusoidal pulated in NEMA
must be eliminated. (1) Looking the moto (2) Measured at 1m	or from the shaft end. and with tolerance of ight subject to change ess. bad.	f +3dB(A).	power su			

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	25/03/2024			1/1	