

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W21 Flameproof Motor NEMA Premium Efficiency Three-Phase				
Product code :	12408373				
Catalog # :	10009XT3E445T				
Frame	: 444/5T				
Insulation class	: F				
Duty cycle	: Cont.(S1)				
Ambient temperature	: -20°C to +40°C				
Altitude	: 1000 m.a.s.l.				
Protection degree	: IP55				
Design	: B				
Cooling method	: IC411 - TEFC				
Mounting	: F-1				
Rotation ¹	: Both (CW and CCW)				
Starting method	: Direct On Line				
Approx. weight ²	: 2229 lb				
Moment of inertia (J)	: 87.3 sq.ft.lb				
Output [HP]	100	75	75	75	
Poles	8	8	8	8	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	208-230/460	380	400	415	
Rated current [A]	276-250/125	112	108	107	
L. R. Amperes [A]	1686-1525/763	717	767	813	
LRC [A]	6.1x(Code G)	6.4x(Code G)	7.1x(Code H)	7.6x(Code J)	
No load current [A]	81.9-95.0/47.5	46.5	51.0	54.4	
Rated speed [RPM]	890	740	740	745	
Slip [%]	1.11	1.33	1.33	0.67	
Rated torque [ft.lb]	582	525	525	522	
Locked rotor torque [%]	170	180	210	229	
Breakdown torque [%]	200	220	250	270	
Service factor	1.15	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	28s (cold) 16s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	
Noise level ²	64.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	
Efficiency (%)	25%				
	50%	94.1	93.6	93.6	
	75%	94.5	94.1	94.1	
	100%	94.1	94.1	94.1	
Power Factor	25%				
	50%	0.68	0.65	0.61	
	75%	0.77	0.75	0.72	
	100%	0.80	0.79	0.78	
Bearing type	: <u>Drive end</u> 6219 C3 <u>Non drive end</u> 6316 C3	Foundation loads			
Sealing	: Viton Oil Seal Viton Seal	Max. traction	: 2690 lb		
		Max. compression	: 4920 lb		
Lubrication interval	: 15247 h 15904 h				
Lubricant amount	: 28 g 34 g				
Lubricant type	: Mobil Polyrex EM				
Notes					
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary		Performed	Checked	Date
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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Checked by			Page	Revision
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