

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor NEMA
Premium Efficiency Three-Phase

Product code : 11439795

Catalog # : 07536XT3E365TS

Frame	: 364/5TS	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 1010 lb
Protection degree	: IP55	Moment of inertia (J)	: 9.96 sq.ft.lb
Design	: B		

Output [HP]	75	60	60	60
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	182-165/82.4	82.1	78.4	75.3
L. R. Amperes [A]	1276-1154/577	542	572	595
LRC [A]	7.0x(Code G)	6.6x(Code G)	7.3x(Code H)	7.9x(Code J)
No load current [A]	37.9-44.0/22.0	18.5	19.7	20.7
Rated speed [RPM]	3560	2960	2965	2970
Slip [%]	1.11	1.33	1.17	1.00
Rated torque [ft.lb]	109	105	105	105
Locked rotor torque [%]	229	220	229	250
Breakdown torque [%]	260	250	270	280
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	85.0 dB(A)	82.0 dB(A)	82.0 dB(A)	82.0 dB(A)
Efficiency (%)	25%			
	50%	93.0	93.6	93.6
	75%	94.1	94.1	94.1
	100%	94.1	93.6	94.5
Power Factor	25%			
	50%	0.81	0.81	0.77
	75%	0.87	0.87	0.85
	100%	0.89	0.89	0.88

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6314 C3	6314 C3	Max. traction	: 513 lb
Sealing	: Oil Seal	Lip Seal	Max. compression	: 1523 lb
Lubrication interval	: 3604 h	3604 h		
Lubricant amount	: 27 g	27 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.

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Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
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