

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11439797

Catalog # : 07518XT3E365T

Frame	: 364/5T	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	: 1029 lb
Protection degree	: IP55	Moment of inertia (J)	: 23.3 sq.ft.lb
Design	: B		

Output [HP]	75	60	60	60
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	184-166/83.2	83.2	79.9	78.5
L. R. Amperes [A]	1288-1165/582	541	591	612
LRC [A]	7.0x(Code G)	6.5x(Code G)	7.4x(Code H)	7.8x(Code J)
No load current [A]	48.3-56.0/28.0	27.0	30.0	32.0
Rated speed [RPM]	1780	1480	1480	1480
Slip [%]	1.11	1.33	1.33	1.33
Rated torque [ft.lb]	218	210	210	210
Locked rotor torque [%]	240	220	250	270
Breakdown torque [%]	290	280	310	340
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)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)
Efficiency (%)	25%			
	50%	94.5	94.1	93.6
	75%	95.0	94.5	94.5
	100%	95.4	94.5	95.0
Power Factor	25%			
	50%	0.74	0.74	0.67
	75%	0.83	0.81	0.79
	100%	0.87	0.86	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6314 C3	6314 C3	Max. traction : 1966 lb
Sealing	: Oil Seal	Lip Seal	Max. compression : 2995 lb
Lubrication interval	: 9789 h	9789 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	24/01/2018			

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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
Performed by				Page	Revision
Checked by				2 / 2	
Date	24/01/2018				