

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11341203

Catalog # : 00218XT3E145T

Frame	: 145T	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	: 72.1 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1595 sq.ft.lb
Design	: B		

Output [HP]	2	2	2	2
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	6.02-5.44/2.72	3.29	3.14	3.07
L. R. Amperes [A]	53.5-48.4/24.2	25.0	24.5	23.9
LRC [A]	8.9x(Code L)	7.6x(Code K)	7.8x(Code K)	7.8x(Code K)
No load current [A]	2.76-3.20/1.60	1.60	1.80	2.00
Rated speed [RPM]	1750	1435	1440	1445
Slip [%]	2.78	4.33	4.00	3.67
Rated torque [ft.lb]	5.92	7.22	7.20	7.17
Locked rotor torque [%]	250	190	220	240
Breakdown torque [%]	320	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	19s (cold) 11s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	82.9	85.1	82.1
	50%	84.0	84.0	82.5
	75%	85.5	84.0	84.0
	100%	86.5	82.5	84.0
Power Factor	25%	0.34	0.39	0.36
	50%	0.60	0.67	0.63
	75%	0.73	0.79	0.76
	100%	0.80	0.84	0.82

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6205 2RS	6204 2RS	Max. traction	: 135 lb
Sealing	: Oil Seal	Lip Seal	Max. compression	: 207 lb
Lubrication interval	: -	-		
Lubricant amount	: -	-		
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	130 °C
2	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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