

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11220257

Catalog # : 00212XT3E184T

Frame	: 184T	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	: 131 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.5323 sq.ft.lb
Design	: B		

Output [HP]	2	2	2	2
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	6.92-6.26/3.13	3.66	3.59	3.56
L. R. Amperes [A]	48.5-43.8/21.9	22.0	24.1	25.3
LRC [A]	7.0x(Code K)	6.0x(Code J)	6.7x(Code K)	7.1x(Code L)
No load current [A]	3.62-4.20/2.10	2.22	2.38	2.50
Rated speed [RPM]	1165	950	955	960
Slip [%]	2.92	5.00	4.50	4.00
Rated torque [ft.lb]	8.89	10.9	10.8	10.8
Locked rotor torque [%]	260	229	280	310
Breakdown torque [%]	330	220	250	280
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	63s (cold) 35s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²	52.0 dB(A)	52.0 dB(A)	52.0 dB(A)	52.0 dB(A)
Efficiency (%)	25%	82.5	88.0	86.1
	50%	84.5	87.5	86.5
	75%	86.5	87.5	87.5
	100%	88.5	86.5	87.5
Power Factor	25%	0.26	0.29	0.27
	50%	0.47	0.53	0.49
	75%	0.58	0.65	0.62
	100%	0.68	0.72	0.69

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6307 2RS	: 6206 2RS	Max. traction : 130 lb
Sealing	: Oil Seal	: Lip Seal	Max. compression : 261 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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