

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12823245

Catalog # : 00118XT3ER143TC

Frame	: 143TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 66.0 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.0975 sq.ft.lb
Design	: B		

Output [HP]	1	1	1	1
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	3.16-2.86/1.43	1.68	1.64	1.59
L. R. Amperes [A]	27.2-24.6/12.3	11.3	12.1	12.6
LRC [A]	8.6x(Code L)	6.7x(Code J)	7.4x(Code K)	7.9x(Code L)
No load current [A]	1.61-1.87/0.935	0.924	0.990	1.06
Rated speed [RPM]	1760	1440	1450	1450
Slip [%]	2.22	4.00	3.33	3.33
Rated torque [ft.lb]	2.94	3.60	3.57	3.57
Locked rotor torque [%]	290	220	250	280
Breakdown torque [%]	370	250	280	310
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)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level <sup>2</sup>	51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	77.3	81.2	80.7
	50%	80.0	81.5	81.0
	75%	82.5	82.5	82.5
	100%	85.5	82.5	84.0
Power Factor	25%	0.32	0.37	0.34
	50%	0.57	0.65	0.61
	75%	0.70	0.77	0.74
	100%	0.77	0.82	0.80

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6205 2RS	6204 2RS	Max. traction	: 64 lb
Sealing	: Oil Seal	Lip Seal	Max. compression	: 130 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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