

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase	Product code : 14353304				
	Catalog # : 00512XT3E215T				
Frame : 213/5T Output : 5 HP (3.7 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 13.7/6.83 A L. R. Amperes : 92.9/46.4 A LRC : 6.8x(Code J) No load current : 6.90/3.45 A Rated speed : 1170 rpm Slip : 2.50 % Rated torque : 22.4 ft.lb Locked rotor torque : 170 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.47 sq.ft.lb Design : B	Locked rotor time : 102s (cold) 57s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 55.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 205 lb				
Output	25%    50%    75%    100%				
Efficiency (%)	88.2 89.8 88.5 88.5 89.5 88.5 89.5 86.8 89.1 87.2 88.5 87.5 88.5 88.5 87.5 88.5				
Power Factor	0.34 0.40 0.58 0.65 0.70 0.75 0.76 0.79 0.37 0.35 0.61 0.58 0.73 0.71 0.78 0.76				
Foundation loads					
	Max. traction : 279 lb				
	Max. compression : 484 lb				
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	11.1	14.4	13.5	12.3
	P2 (0,5;1,0)	9.1	11.8	11.1	10.1
	P3 (0,25;1,0)	8.8	11.4	10.8	9.8
	P4 (0,9;0,5)	5.8	7.5	7.1	6.4
	P5 (0,5;0,5)	4.0	5.2	4.9	4.5
	P6 (0,5;0,25)	2.9	3.7	3.5	3.2
	P7 (0,25;0,25)	2.1	2.7	2.6	2.3
Bearing type	: Drive end 6308 2RS    Non drive end 6207 2RS				
Sealing	: Oil Seal    Lip Seal				
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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Customer : \_\_\_\_\_

### Thermal protection

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

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