

DATA SHEET

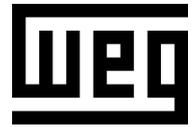


Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14255321		
		Catalog # : 00118XT3E143T		
Frame	: 143/5T	Locked rotor time	: 32s (cold) 18s (hot)	
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K	
Poles	: 4	Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 2.94/1.47 A	Protection degree	: IP55	
L. R. Amperes	: 25.3/12.6 A	Cooling method	: IC411 - TEFC	
LRC	: 8.6x(Code M)	Mounting	: F-1	
No load current	: 1.88/0.940 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1755 rpm	Noise level ²	: 51.0 dB(A)	
Slip	: 2.50 %	Starting method	: Direct On Line	
Rated torque	: 2.99 ft.lb	Approx. weight ³	: 66.2 lb	
Locked rotor torque	: 280 %			
Breakdown torque	: 360 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 0.0975 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	77.3	81.2	80.0	81.5 82.5 82.5 85.5 82.5
	80.7	78.4	81.0	80.0 82.5 82.5 82.5 84.0
Power Factor	0.32	0.36	0.57	0.62 0.68 0.74 0.75 0.80
	0.33	0.31	0.58	0.55 0.70 0.68 0.78 0.75
Foundation loads		Max. traction : 63 lb		
		Max. compression : 131 lb		
Bearing type	:	Drive end	Non drive end	
Sealing	:	6205 2RS	6204 2RS	
Lubrication interval	:	Oil Seal	Lip Seal	
Lubricant amount	:	-	-	
Lubricant type	:	-	-	
Mobil Polyrex EM				
Notes:				
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
(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.				
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Thermal protection

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

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