

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : Dealers Industrial Equipment 800-469-3110
 Customer reference : 00518XT3E184JP

Product line : W21 Explosion-proof Motor NEMA Premium Efficiency Three-Phase Product code : 14602355
 Catalog # : 00518XT3E184JP

Frame	: 182/4TZ	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 14.5-13.1/6.57 A	Protection degree	: IP55
L. R. Amperes	: 103-93.3/46.6 A	Cooling method	: IC411 - TEFC
LRC	: 7.1x(Code J)	Mounting	: F-1
No load current	: 5.35-6.20/3.10 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 14.8 ft.lb	Approx. weight ³	: 130 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.3695 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	85.3	86.5	88.5	89.5	Max. traction
Power Factor	0.36	0.59	0.71	0.79	Max. compression

	Drive end	Non drive end
Bearing type	: 6307 2RS	: 6206 2RS
Sealing	: Oil Seal	: Lip Seal
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: Mobil Polyrex EM	

Notes
 downloaded from <http://dealerselectric.com>

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	155 °C

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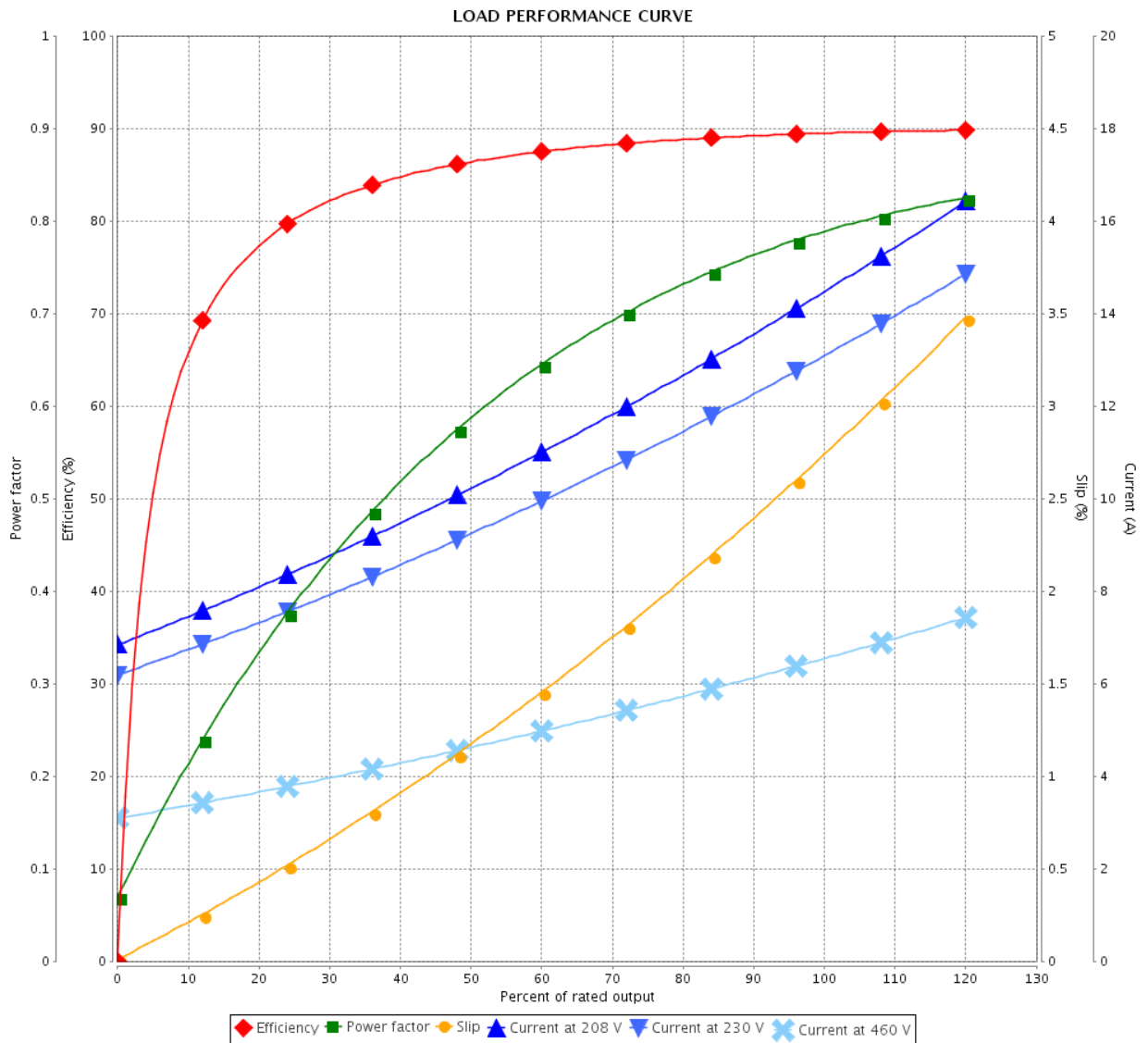
LOAD PERFORMANCE CURVE

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Performance : 208-230/460 V 60 Hz 4P

Rated current : 14.5-13.1/6.57 A
 LRC : 7.1
 Rated torque : 14.8 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 330 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.3695 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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