

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel 00022 Single-Phase Product code : 14807316
Catalog # : 00218ES1RFD56H-S

Frame	: 56H	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 20.0/10.0 A	Protection degree	: IP55
L. R. Amperes	: 160/80.0 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code L)	Mounting	: F-1
No load current	: 12.2/6.10 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1745 rpm	Noise level ²	: 54.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 6.02 ft.lb	Approx. weight ³	: 46.3 lb
Locked rotor torque	: 260 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1614 sq.ft.lb		
Design	: L		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	67.6	70.0	76.0	78.5	Max. traction	: 127 lb
Power Factor	0.38	0.66	0.76	0.82	Max. compression	: 180 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6204 2RS	6202 2RS
Sealing	:	V'Ring	Without Bearing 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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Performed by		Page Revision 1 / 2		
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LOAD PERFORMANCE CURVE

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Customer :

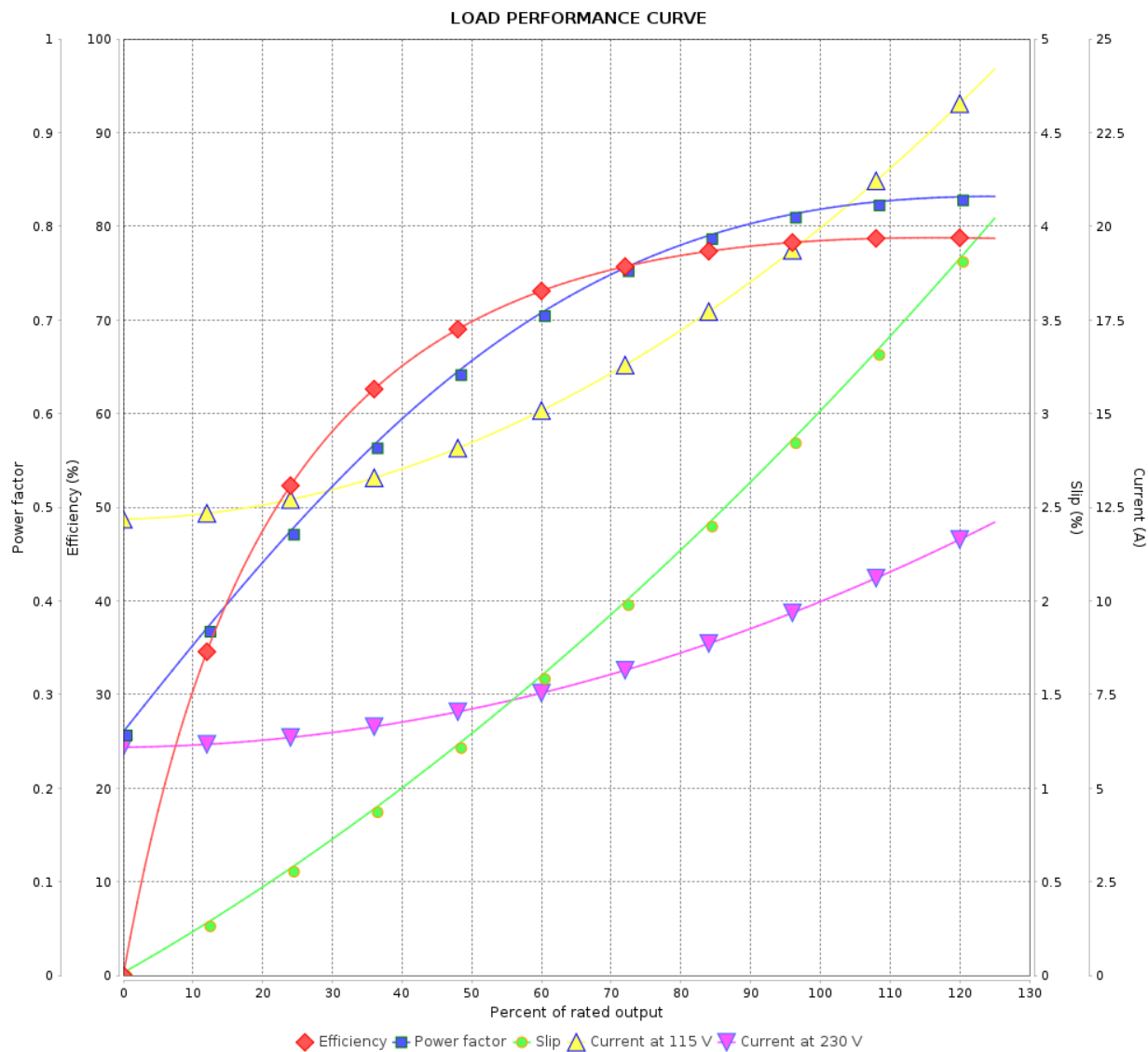
Product line : Rolled Steel 00022 Single-Phase

Product code :

14807316

Catalog # :

00218ES1RFD56H-S



Performance : 115/230 V 60 Hz 4P

Rated current : 20.0/10.0 A
LRC : 8.0
Rated torque : 6.02 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 260 %
Rated speed : 1745 rpm

Moment of inertia (J) : 0.1614 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : L

Rev.	Changes Summary		Performed	Checked	Date
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