

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Single-Phase	Product code	: 13383418		
Frame	: 56HC	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 22.4 kg		
Design	: L	Moment of inertia (J)	: 0.0065 kgm ²		
Output [HP]	2				
Poles	4				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	21.0/11.6-10.5				
L. R. Amperes [A]	158/87.0-78.7				
LRC [A]	7.5x(Code J)				
No load current [A]	13.8/5.95-6.90				
Rated speed [RPM]	1740				
Slip [%]	3.33				
Rated torque [kgfm]	0.834				
Locked rotor torque [%]	240				
Breakdown torque [%]	260				
Service factor					
Temperature rise	80 K				
Locked rotor time	10s (cold) 6s (hot)				
Noise level ²	52.0 dB(A)				
Efficiency (%)	25%				
	50%	70.0			
	75%	75.0			
	100%	78.0			
Power Factor	25%				
	50%	0.62			
	75%	0.73			
	100%	0.80			
Bearing type	: <u>Drive end</u> 6204 ZZ	<u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without	Without	Max. traction	: 57 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 80 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes					
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>			<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

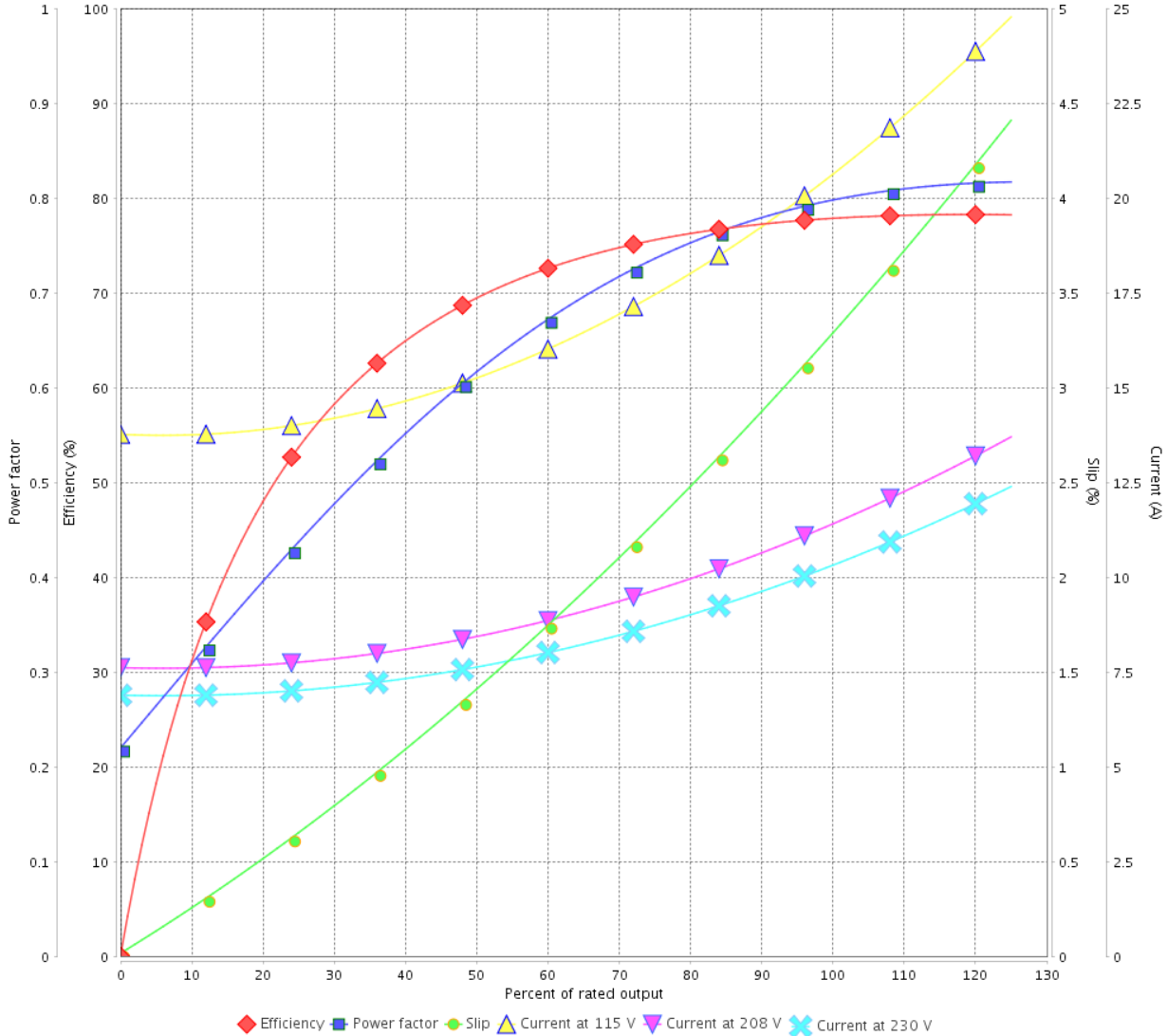


Customer :

Product line : Single-Phase

Product code : 13383418

LOAD PERFORMANCE CURVE



Performance : 115/208-230 V 60 Hz 4P

Rated current : 21.0/11.6-10.5 A
 LRC : 7.5
 Rated torque : 0.834 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0065 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : L

Rev.	Changes Summary	Performed	Checked	Date
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