

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Single-Phase	Product code : 13420272		
Frame	: W56C	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 : 9.1 kg		
Design	: N	Moment of inertia (J) : 0.0020 kgm ²		
Output [HP]		0.5		
Poles		4		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		8.24/4.56-4.12		
L. R. Amperes [A]		47.8/26.4-23.9		
LRC [A]		5.8x(Code M)		
No load current [A]		6.80/2.93-3.40		
Rated speed [RPM]		1735		
Slip [%]		3.61		
Rated torque [kgfm]		0.209		
Locked rotor torque [%]		320		
Breakdown torque [%]		270		
Service factor				
Temperature rise		80 K		
Locked rotor time		18s (cold) 10s (hot)		
Noise level ²		50.0 dB(A)		
Efficiency (%)	25%			
	50%	54.0		
	75%	61.0		
	100%	63.0		
Power Factor	25%			
	50%	0.43		
	75%	0.53		
	100%	0.62		
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction : 13 kgf		
Lubrication interval	: - -	Max. compression : 22 kgf		
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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Date	17/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

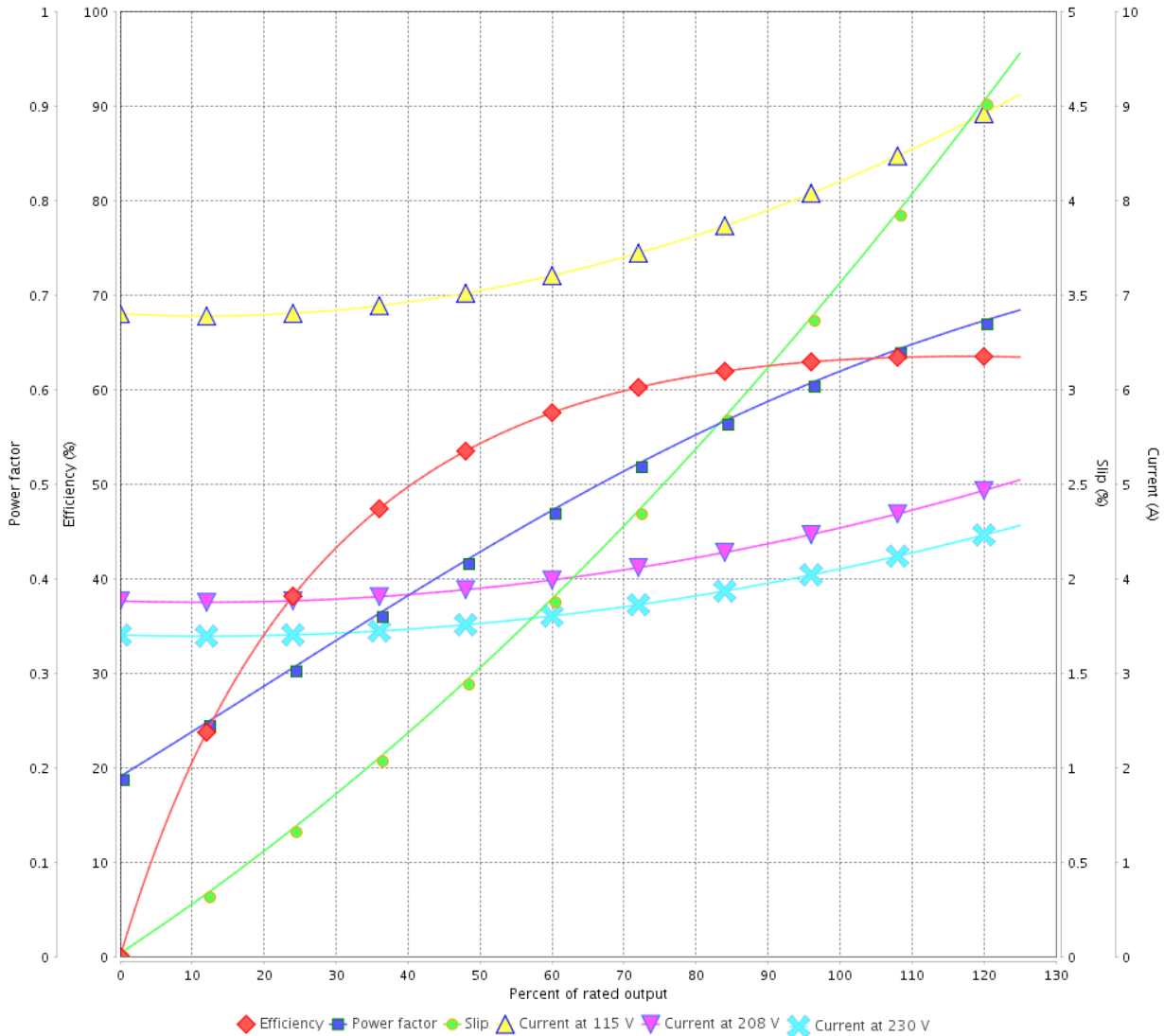


Customer :

Product line : Single-Phase

Product code : 13420272

LOAD PERFORMANCE CURVE



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

Rated current : 8.24/4.56-4.12 A
 LRC : 5.8
 Rated torque : 0.209 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 270 %
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0020 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
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