

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :					
Product line : Single-Phase		Product code : 13638769			
Frame : W56C	Cooling method : IC411 - TEFC				
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 : 7.7 kg				
Protection degree : IP55	Moment of inertia (J) : 0.0013 kgm ²				
Design : N					
Output [HP]	0.25				
Poles	4				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	4.60/2.54-2.30				
L. R. Amperes [A]	24.4/13.5-12.2				
LRC [A]	5.3x(Code N)				
No load current [A]	4.00/1.72-2.00				
Rated speed [RPM]	1735				
Slip [%]	3.61				
Rated torque [kgfm]	0.105				
Locked rotor torque [%]	310				
Breakdown torque [%]	280				
Service factor					
Temperature rise	80 K				
Locked rotor time	27s (cold) 15s (hot)				
Noise level ²	52.0 dB(A)				
Efficiency (%)	25%	39.8			
	50%	43.0			
	75%	52.0			
	100%	57.0			
Power Factor	25%	0.25			
	50%	0.43			
	75%	0.52			
	100%	0.60			
Bearing type : 6203 ZZ	Drive end	Non drive end	Foundation loads		
Sealing : V'Ring			Max. traction : 5 kgf		
Lubrication interval : -			Max. compression : 13 kgf		
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.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	13/05/2022			Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

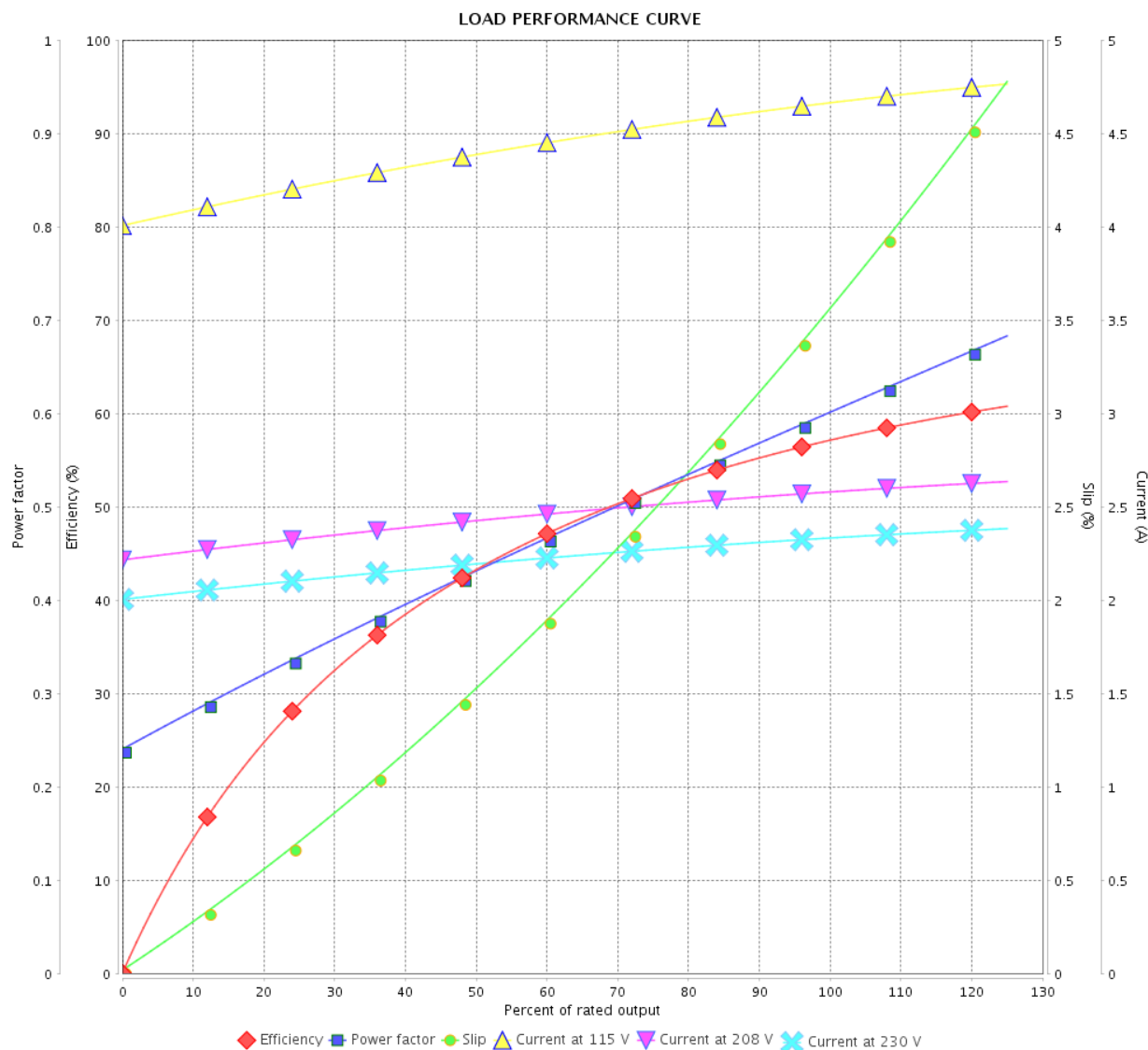
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 13638769



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

Rated current : 4.60/2.54-2.30 A
 LRC : 5.3
 Rated torque : 0.105 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 280 %
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0013 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : N

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