

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Jet Pump - J type Single-Phase	Product code	: 14733581		
Frame	: 56J	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 15.6 kg		
Design	: L	Moment of inertia (J)	: 0.0027 kgm ²		
Output [HP]	1.5				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	12.4/6.86-6.20				
L. R. Amperes [A]	102/56.3-50.8				
LRC [A]	8.2x(Code J)				
No load current [A]	3.20/1.38-1.60				
Rated speed [RPM]	3500				
Slip [%]	2.78				
Rated torque [kgfm]	0.311				
Locked rotor torque [%]	260				
Breakdown torque [%]	270				
Service factor					
Temperature rise	80 K				
Locked rotor time	18s (cold) 10s (hot)				
Noise level ²	58.0 dB(A)				
Efficiency (%)	25%				
	50%	73.0			
	75%	79.0			
	100%	81.5			
Power Factor	25%				
	50%	0.92			
	75%	0.95			
	100%	0.95			
Bearing type	: <u>Drive end</u> 6203 2RS	<u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: Without	Without	Max. traction	: 19 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 34 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>		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	17/05/2022			1 / 2	

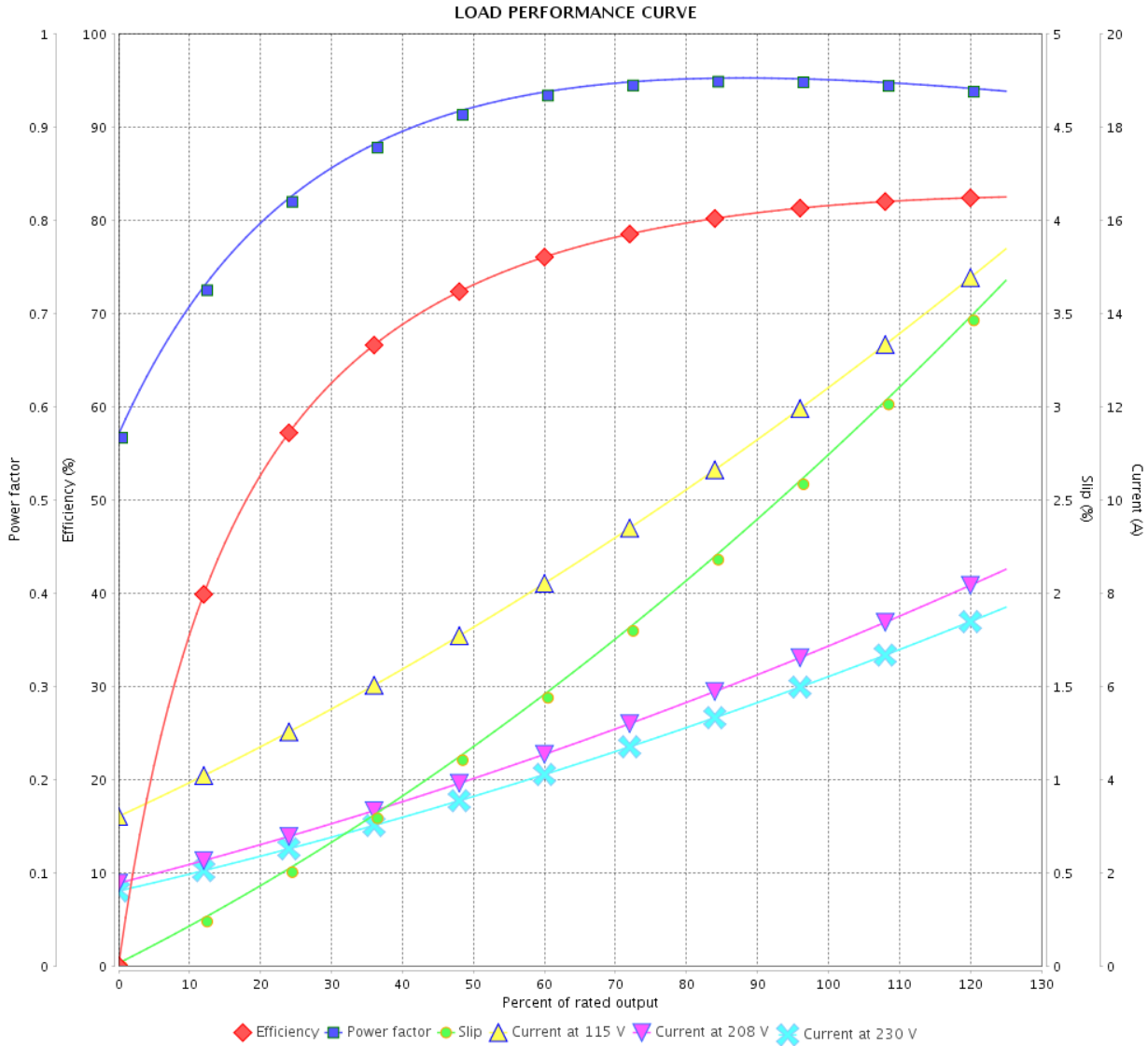
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Single-Phase Product code : 14733581



Performance : 115/208-230 V 60 Hz 2P

Rated current : 12.4/6.86-6.20 A
 LRC : 8.2
 Rated torque : 0.311 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 270 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0027 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : L

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	17/05/2022			

