

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Jet Pump - J type Single-Phase	Product code :	13922052
Frame	: 56J	Cooling method	: IC411 - TEFC	
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	: 21.7 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0040 kgm ²	
Design	: L			
Output [HP]	3			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	230			
Rated current [A]	12.7			
L. R. Amperes [A]	102			
LRC [A]	8.0x(Code J)			
No load current [A]	4.00			
Rated speed [RPM]	3490			
Slip [%]	3.06			
Rated torque [kgfm]	0.624			
Locked rotor torque [%]	210			
Breakdown torque [%]	250			
Service factor	1.15			
Temperature rise	80 K			
Locked rotor time	10s (cold) 6s (hot)			
Noise level ²	68.0 dB(A)			
Efficiency (%)	25%			
	50%	76.0		
	75%	79.0		
	100%	80.0		
Power Factor	25%			
	50%	0.86		
	75%	0.92		
	100%	0.94		
Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 38 kgf	
Lubrication interval	: - -	Max. compression	: 60 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
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Date	17/05/2022			

LOAD PERFORMANCE CURVE

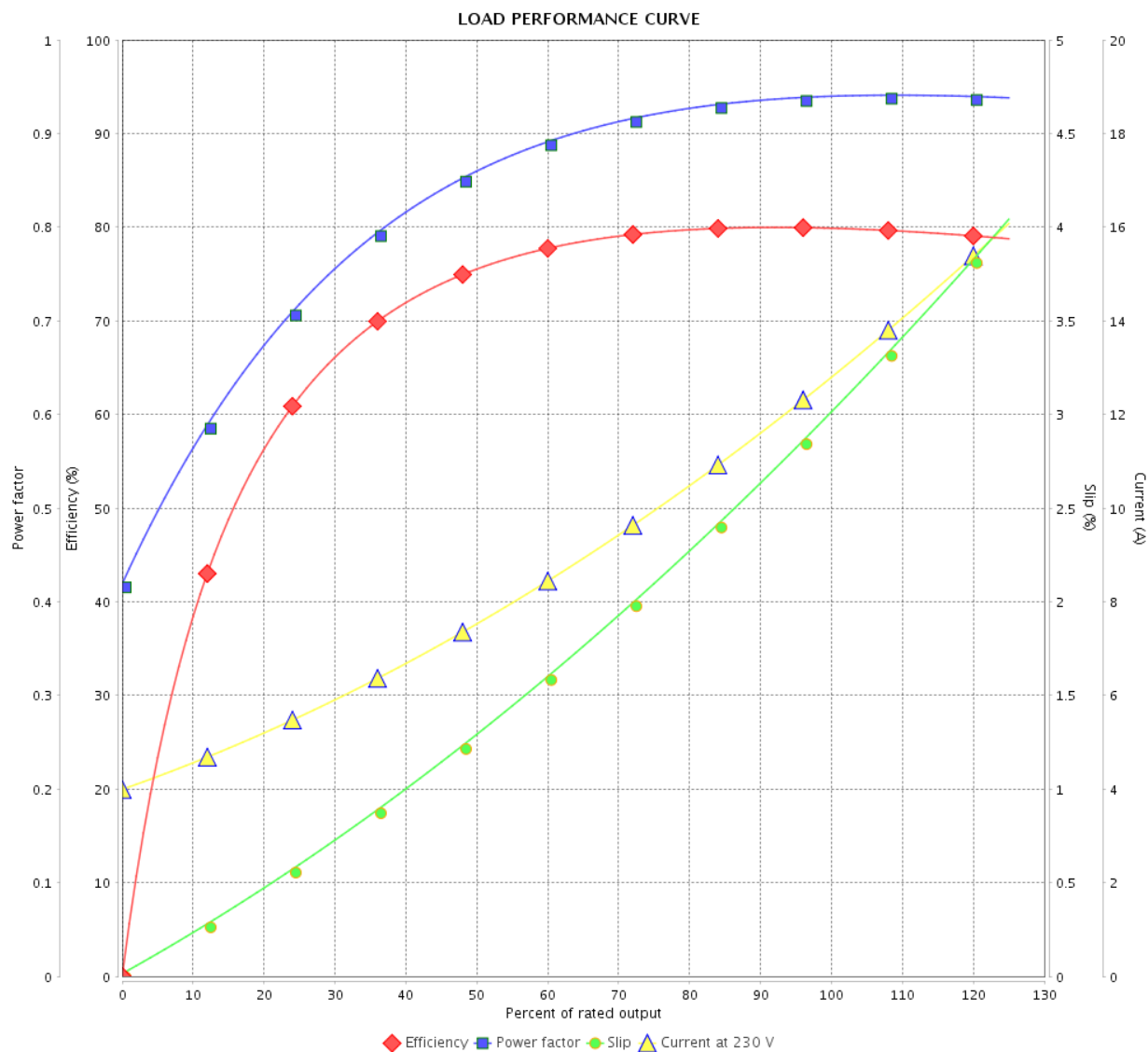
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Single-Phase

Product code : 13922052



Performance : 230 V 60 Hz 2P

Rated current : 12.7 A
 LRC : 8.0
 Rated torque : 0.624 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 3490 rpm

Moment of inertia (J) : 0.0040 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : L

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