

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Single-Phase	Product code : 14541715		
Frame	: 56H	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 : 22.8 kg		
Design	: L	Moment of inertia (J) : 0.0040 kgm ²		
Output [HP]		3		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		24.4/13.5-12.2		
L. R. Amperes [A]		200/111-100		
LRC [A]		8.2x(Code J)		
No load current [A]		7.80/3.36-3.90		
Rated speed [RPM]		3500		
Slip [%]		2.78		
Rated torque [kgfm]		0.622		
Locked rotor torque [%]		220		
Breakdown torque [%]		280		
Service factor				
Temperature rise		80 K		
Locked rotor time		10s (cold) 6s (hot)		
Noise level ²		58.0 dB(A)		
Efficiency (%)	25%			
	50%	76.0		
	75%	81.0		
	100%	84.1		
Power Factor	25%			
	50%	0.87		
	75%	0.92		
	100%	0.93		
Bearing type	: <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction : 44 kgf		
Lubrication interval	: - -	Max. compression : 67 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>		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

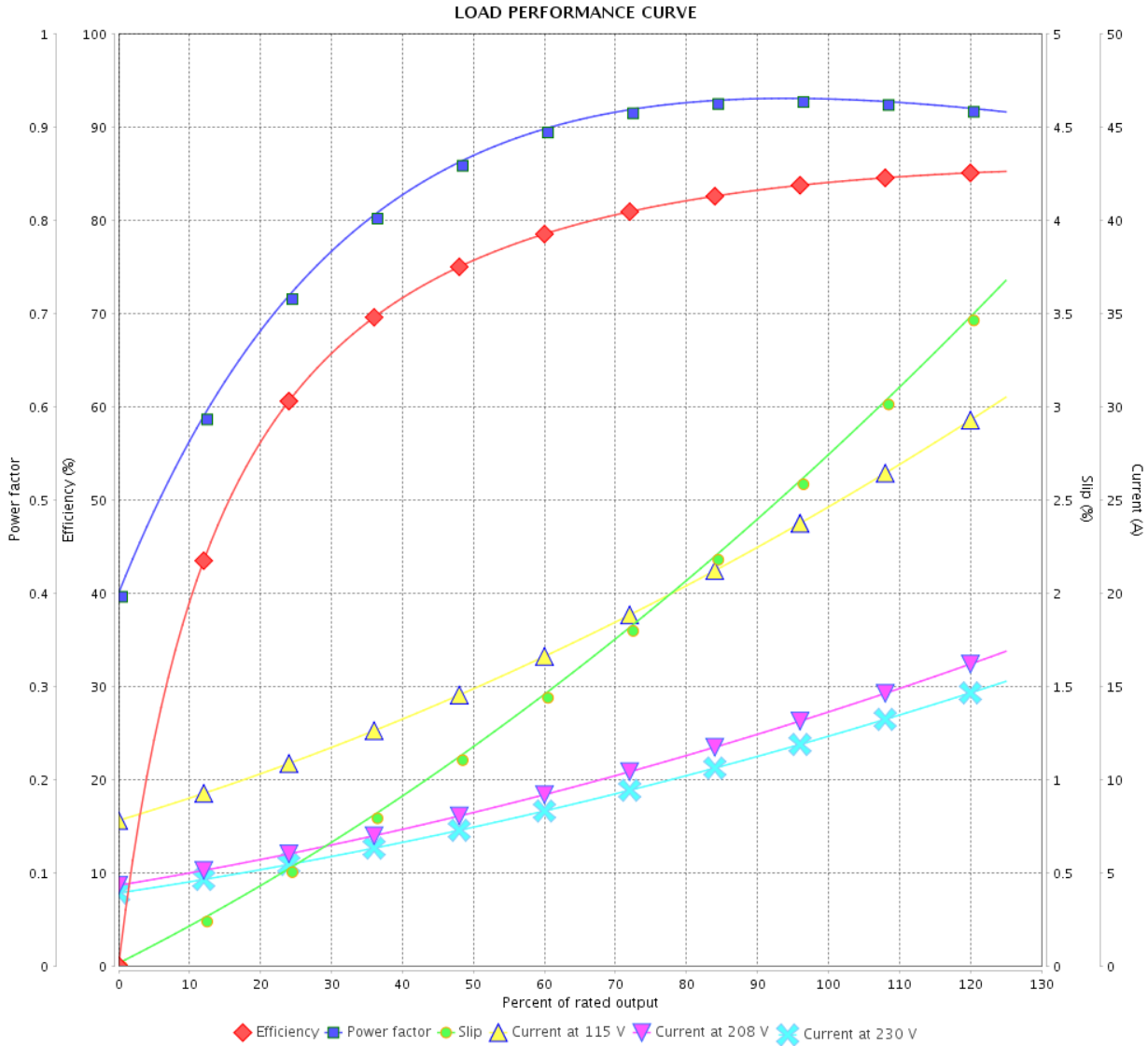
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 14541715



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

Rated current : 24.4/13.5-12.2 A
 LRC : 8.2
 Rated torque : 0.622 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 280 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0040 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	Revision
Checked by				
Date				