

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Single-Phase			
Product code :	13817228			
Frame	: 56HC			
Insulation class	: F			
Duty cycle	: Cont.(S1)			
Ambient temperature	: -20°C to +40°C			
Altitude	: 1000 m.a.s.l.			
Protection degree	: IP55			
Design	: L			
Cooling method	: IC411 - TEFC			
Mounting	: F-1			
Rotation ¹	: Both (CW and CCW)			
Starting method	: Direct On Line			
Approx. weight ³	: 18.7 kg			
Moment of inertia (J)	: 0.0030 kgm ²			
Output [HP]	2			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	115/208-230			
Rated current [A]	17.5/9.62-8.73			
L. R. Amperes [A]	136/75.0-68.1			
LRC [A]	7.8x(Code J)			
No load current [A]	5.00/2.16-2.50			
Rated speed [RPM]	3495			
Slip [%]	2.92			
Rated torque [kgfm]	0.415			
Locked rotor torque [%]	220			
Breakdown torque [%]	250			
Service factor				
Temperature rise	80 K			
Locked rotor time	10s (cold) 6s (hot)			
Noise level ²	68.0 dB(A)			
Efficiency (%)	25%			
	50%	70.0		
	75%	75.0		
	100%	77.0		
Power Factor	25%			
	50%	0.94		
	75%	0.97		
	100%	0.97		
Bearing type	: <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ			
Sealing	: V'Ring V'Ring			
Lubrication interval	: - -			
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Foundation loads				
Max. traction	: 23 kgf			
Max. compression	: 42 kgf			
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			Page	Revision
Date	13/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

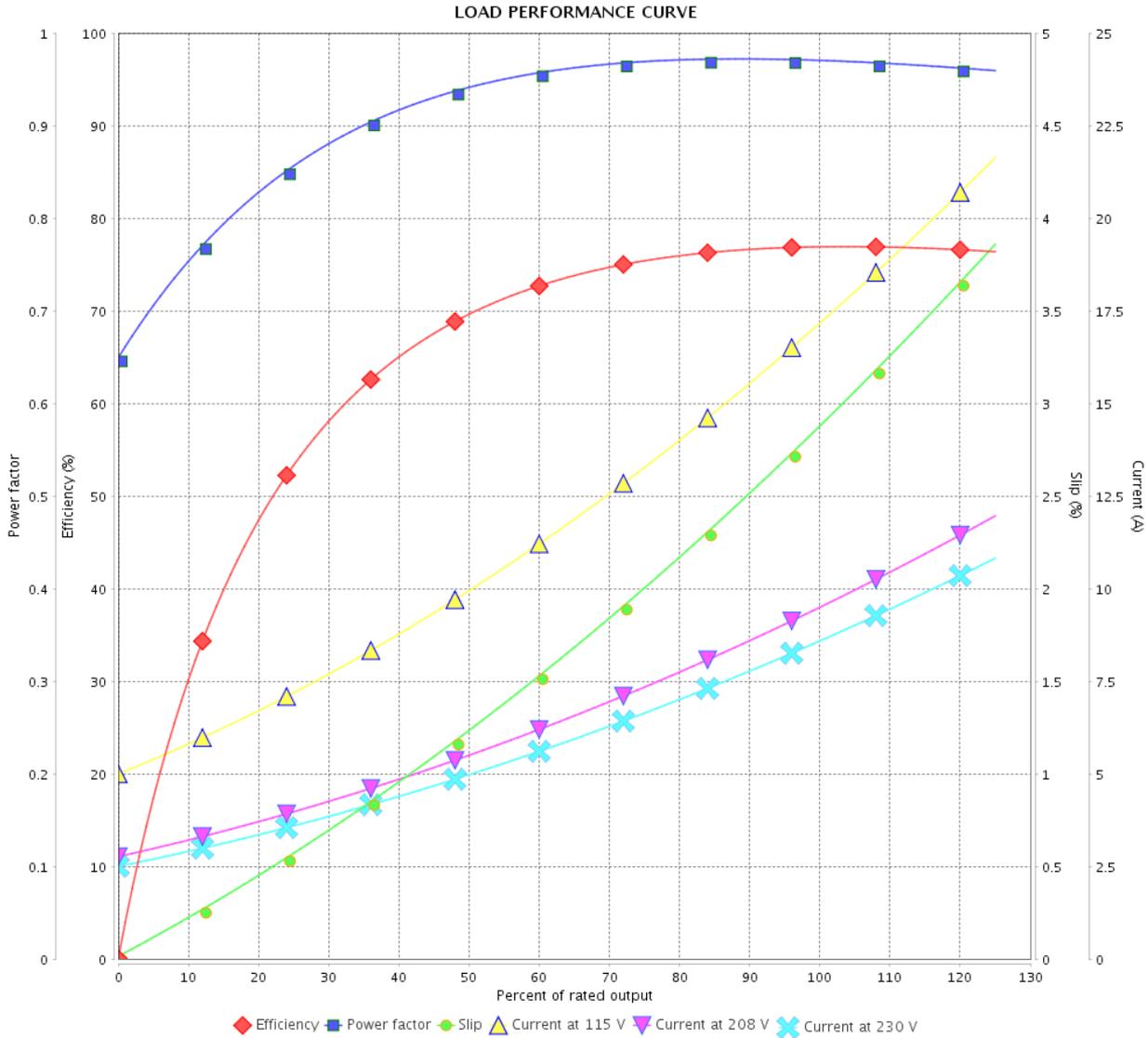
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 13817228



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

Rated current : 17.5/9.62-8.73 A
 LRC : 7.8
 Rated torque : 0.415 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 3495 rpm

Moment of inertia (J) : 0.0030 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	13/05/2022			