

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14775795

Frame	: 143/5TC	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 13.6/7.30-6.80 A	Protection degree	: IP55
L. R. Amperes	: 99.3/53.3-49.6 A	Cooling method	: IC411 - TEFC
LRC	: 7.3x(Code J)	Mounting	: F-1
No load current	: 3.80/1.64-1.90 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3520 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 0.309 kgfm	Approx. weight ³	: 27.6 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0020 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	67.0	72.0	74.0	Max. traction	: 7 kgf
Power Factor	0.91	0.94	0.95	Max. compression	: 35 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6203 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
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		Page 1 / 2 Revision		
Checked by				
Date	29/10/2024			

LOAD PERFORMANCE CURVE

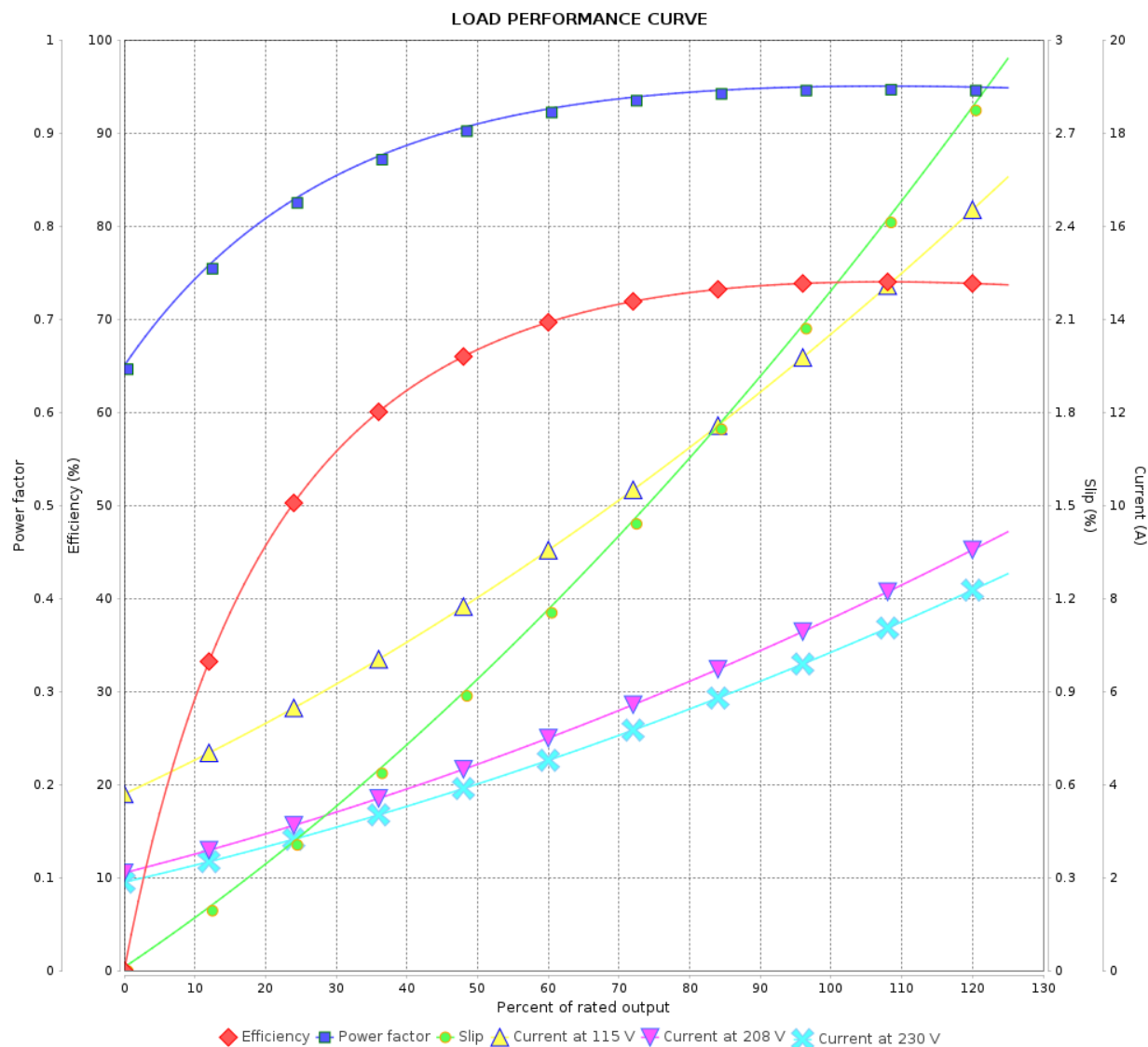
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14775795



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

Rated current : 13.6/7.30-6.80 A
LRC : 7.3
Rated torque : 0.309 kgfm
Locked rotor torque : 229 %
Breakdown torque : 240 %
Rated speed : 3520 rpm

Moment of inertia (J) : 0.0020 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2Revision		
Checked by				
Date	29/10/2024			