

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Single-Phase

Product code : 14451210

Frame	: 213/5TC	Locked rotor time	: 9s (cold) 5s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 26.8/14.5-13.4 A	Protection degree	: IP55
L. R. Amperes	: 198/107-99.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.4x(Code J)	Mounting	: F-1
No load current	: 10.0/4.31-5.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1170 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 1.86 kgfm	Approx. weight ³	: 70.3 kg
Locked rotor torque	: 180 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0541 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	67.0	74.5	77.0	Max. traction	: 33 kgf
Power Factor	0.87	0.92	0.93	Max. compression	: 104 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6206 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	15/01/2024			

LOAD PERFORMANCE CURVE

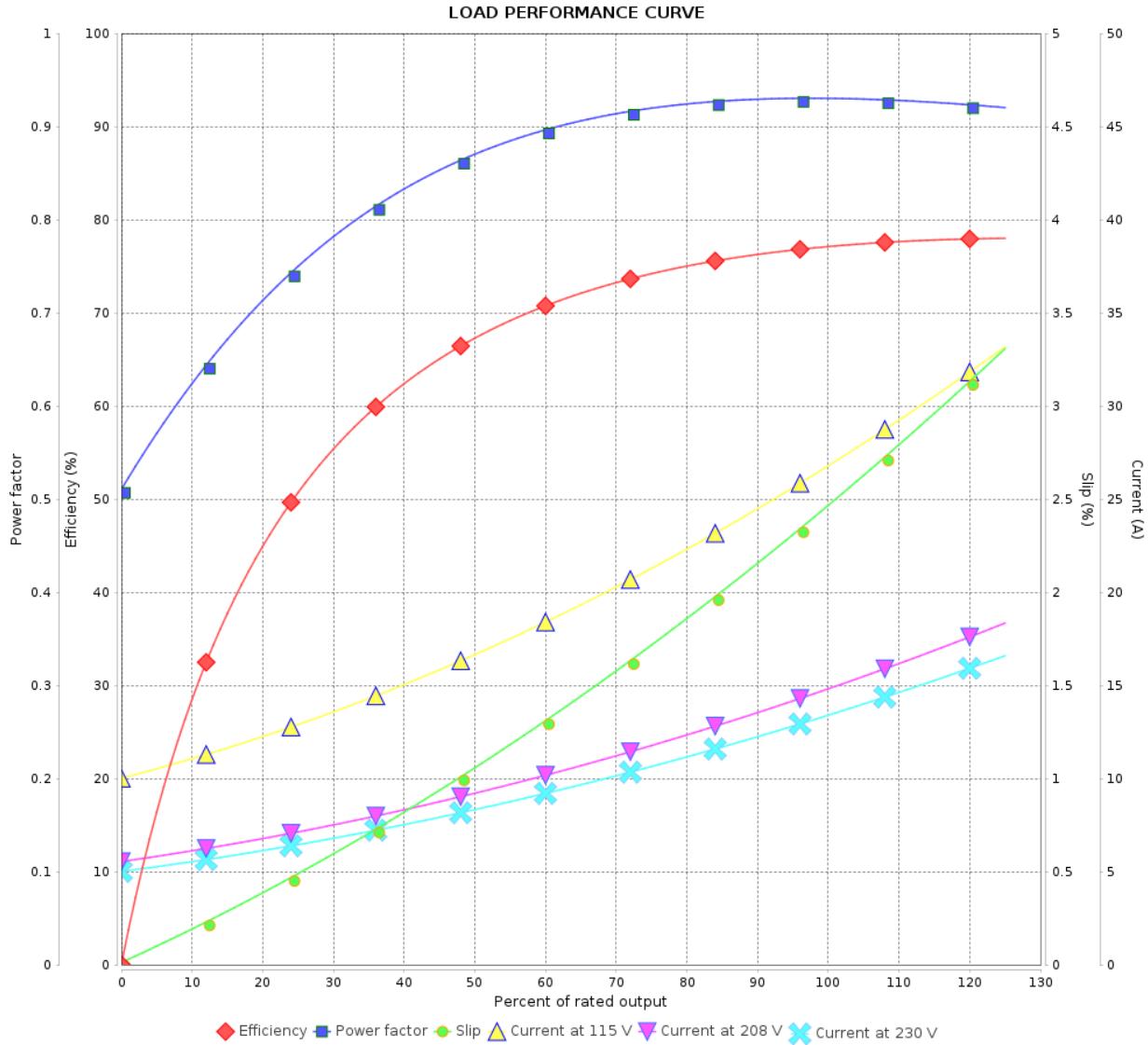
Single Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Single-Phase

Product code : 14451210



Performance : 115/208-230 V 60 Hz 6P

Rated current : 26.8/14.5-13.4 A
 LRC : 7.4
 Rated torque : 1.86 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 200 %
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0541 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				