

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase Product code : 14303452

Frame	: 213/5TC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 44.5-40.8/20.4 A	Protection degree	: IP55
L. R. Amperes	: 298-273/137 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 9.66-11.2/5.60 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 4.17 kgfm	Approx. weight ³	: 88.9 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0486 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	77.9	82.5	84.0	Max. traction	: 141 kgf
Power Factor	0.92	0.94	0.95	Max. compression	: 229 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	28/10/2024			

LOAD PERFORMANCE CURVE

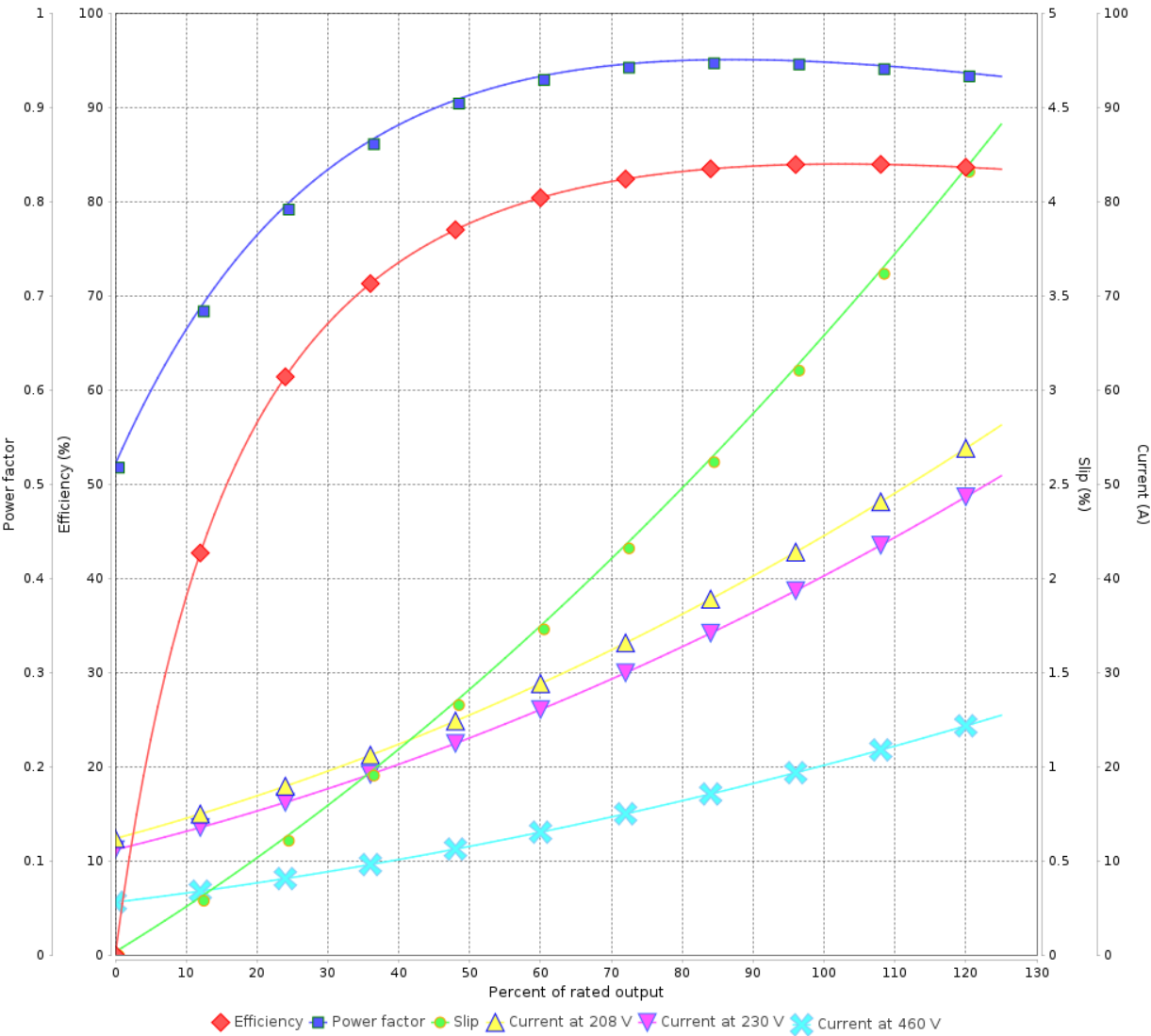
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase Product code : 14303452

LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 4P			
Rated current	: 44.5-40.8/20.4 A	Moment of inertia (J)	: 0.0486 kgm ²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 4.17 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	:
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm		

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	28/10/2024				

