

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 15383670

Frame	: 182/4TC	Locked rotor time	: 43s (cold) 24s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 4.38 A	Protection degree	: IP55
L. R. Amperes	: 31.1 A	Cooling method	: IC411 - TEFC
LRC	: 7.1x(Code J)	Mounting	: F-1
No load current	: 2.07 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 2.07 kgfm	Approx. weight ³	: 61.4 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0156 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.5	88.5	89.5	Max. traction	: 100 kgf
Power Factor	0.59	0.71	0.79	Max. compression	: 161 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6307 2RS	6206 2RS
Sealing	:	Oil Seal	Lip Seal
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 / 3 Revision		
Checked by				
Date	29/10/2024			

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

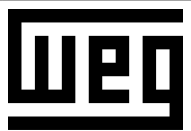
Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 3	Revision
Checked by					
Date	29/10/2024				

LOAD PERFORMANCE CURVE

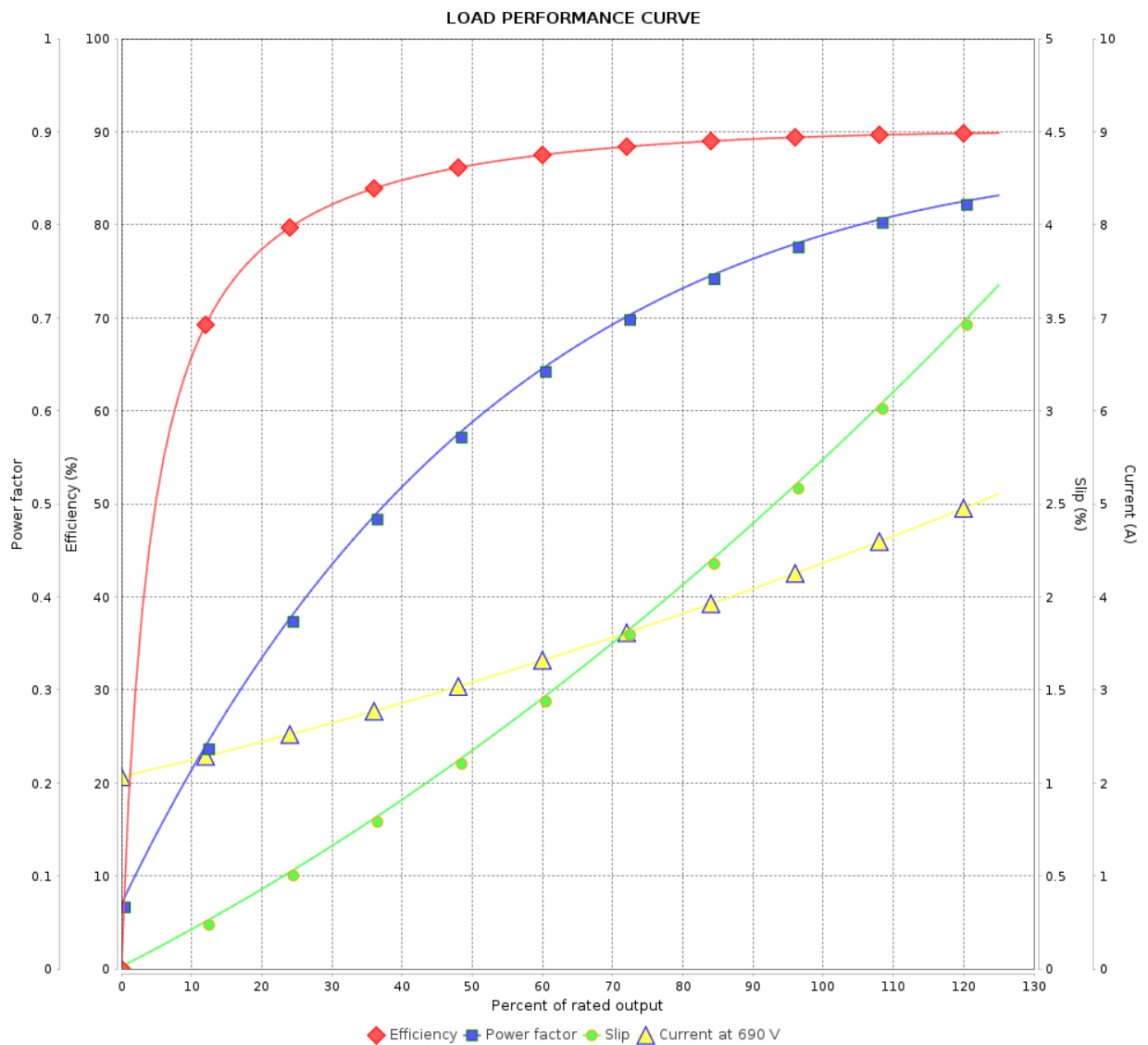
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA
Premium Efficiency Three-Phase

Product code : 15383670



Performance : 690 V 60 Hz 4P

Rated current : 4.38 A
LRC : 7.1
Rated torque : 2.07 kgfm
Locked rotor torque : 229 %
Breakdown torque : 300 %
Rated speed : 1750 rpm

Moment of inertia (J) : 0.0156 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 3 / 3	Revision
Checked by					
Date	29/10/2024				