

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11458665

Frame	: 254/6T	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 10.6 A	Protection degree	: IP55
L. R. Amperes	: 69.2 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code H)	Mounting	: F-1
No load current	: 4.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level ²	: 59.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 6.17 kgfm	Approx. weight ³	: 137 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1867 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.2	91.0	91.0	Max. traction	: 203 kgf
Power Factor	0.63	0.74	0.78	Max. compression	: 340 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
9.8	8.4	7.8	5.0	3.6	2.5	1.8

	Drive end	Non drive end
Bearing type	: 6309 C3	: 6209 C3
Sealing	: V'Ring	: V'Ring
Lubrication interval	: 20000 h	: 20000 h
Lubricant amount	: 13 g	: 9 g
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				
Checked by				
Date	20/10/2024		Page 1 / 2	Revision

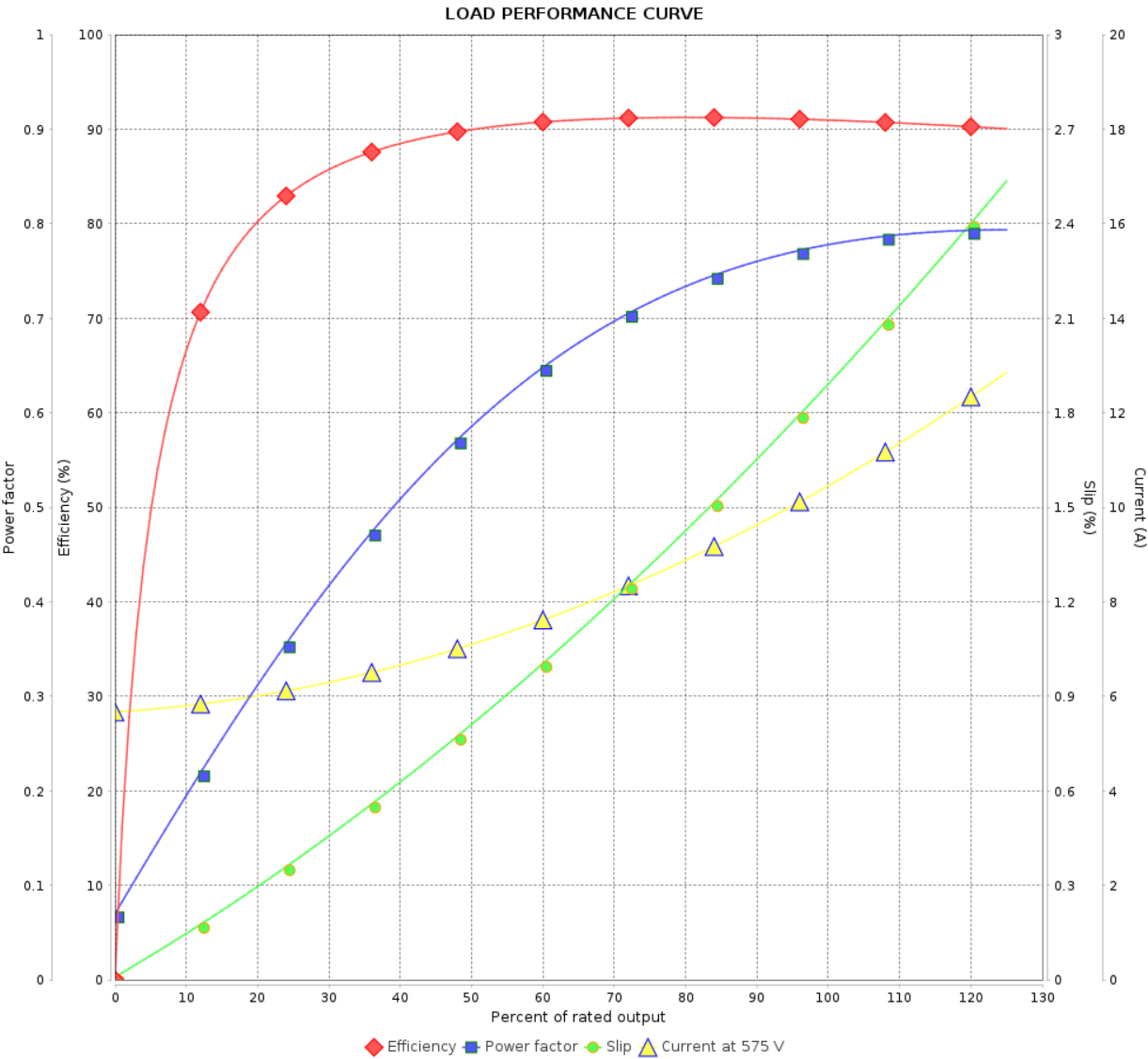
LOAD PERFORMANCE CURVE

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Performance : 575 V 60 Hz 6P

Rated current	: 10.6 A	Moment of inertia (J)	: 0.1867 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 6.17 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date					
	20/10/2024				