

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 High Efficiency Three-Phase Product code : 13133225

Frame	: 143/5TCZ	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 0.625 A	Protection degree	: IP55
L. R. Amperes	: 5.50 A	Cooling method	: IC411 - TEFC
LRC	: 8.8x(Code M)	Mounting	: F-1
No load current	: 0.400 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Starting method	: Direct On Line
Slip	: 1.94 %	Approx. weight ³	: 20.0 kg
Rated torque	: 0.206 kgfm		
Locked rotor torque	: 280 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0046 kgm ²		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	74.0	79.0	82.5	Max. traction	: 13 kgf
Power Factor	0.00	0.50	0.62	0.72	Max. compression	: 33 kgf

		Drive end	Non drive end
Bearing type	:	6205 C3	6204 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	4 g	4 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.

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Date	21/10/2024			

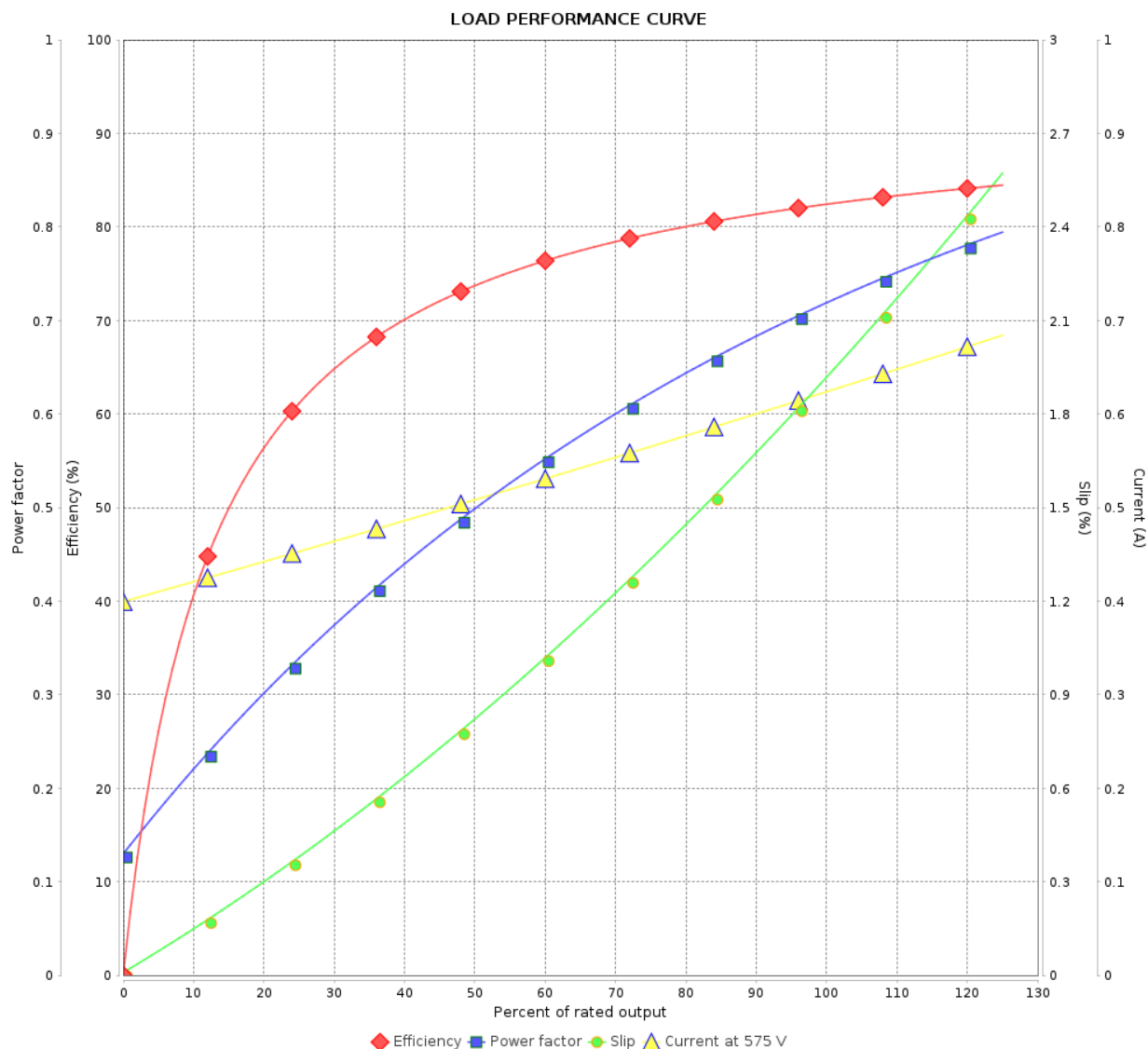
LOAD PERFORMANCE CURVE

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Customer :

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Performance : 575 V 60 Hz 4P

Rated current : 0.625 A
LRC : 8.8
Rated torque : 0.206 kgfm
Locked rotor torque : 280 %
Breakdown torque : 400 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0046 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K

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