

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 14956071

Frame	: 449T	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 300 HP (220 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	: 267 A	Protection degree	: IP55
L. R. Amperes	: 2138 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code J)	Mounting	: F-1
No load current	: 92.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1785 rpm	Noise level <sup>2</sup>	: 80.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 122 kgfm	Approx. weight <sup>3</sup>	: 1410 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.77 kgm <sup>2</sup>		
Design	: A		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.4	95.8	96.2	Max. traction	: 2389 kgf
Power Factor	0.74	0.83	0.86	Max. compression	: 3799 kgf

	Drive end	Non drive end
Bearing type	: NU-322 C3	6319 C3
Sealing	: Viton Oil Seal	Viton Seal
Lubrication interval	: 3330 h	7038 h
Lubricant amount	: 60 g	45 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	29/10/2024			

Page 1 / 3  
Revision

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	Revision
Checked by				2 / 3	
Date	29/10/2024				

# LOAD PERFORMANCE CURVE

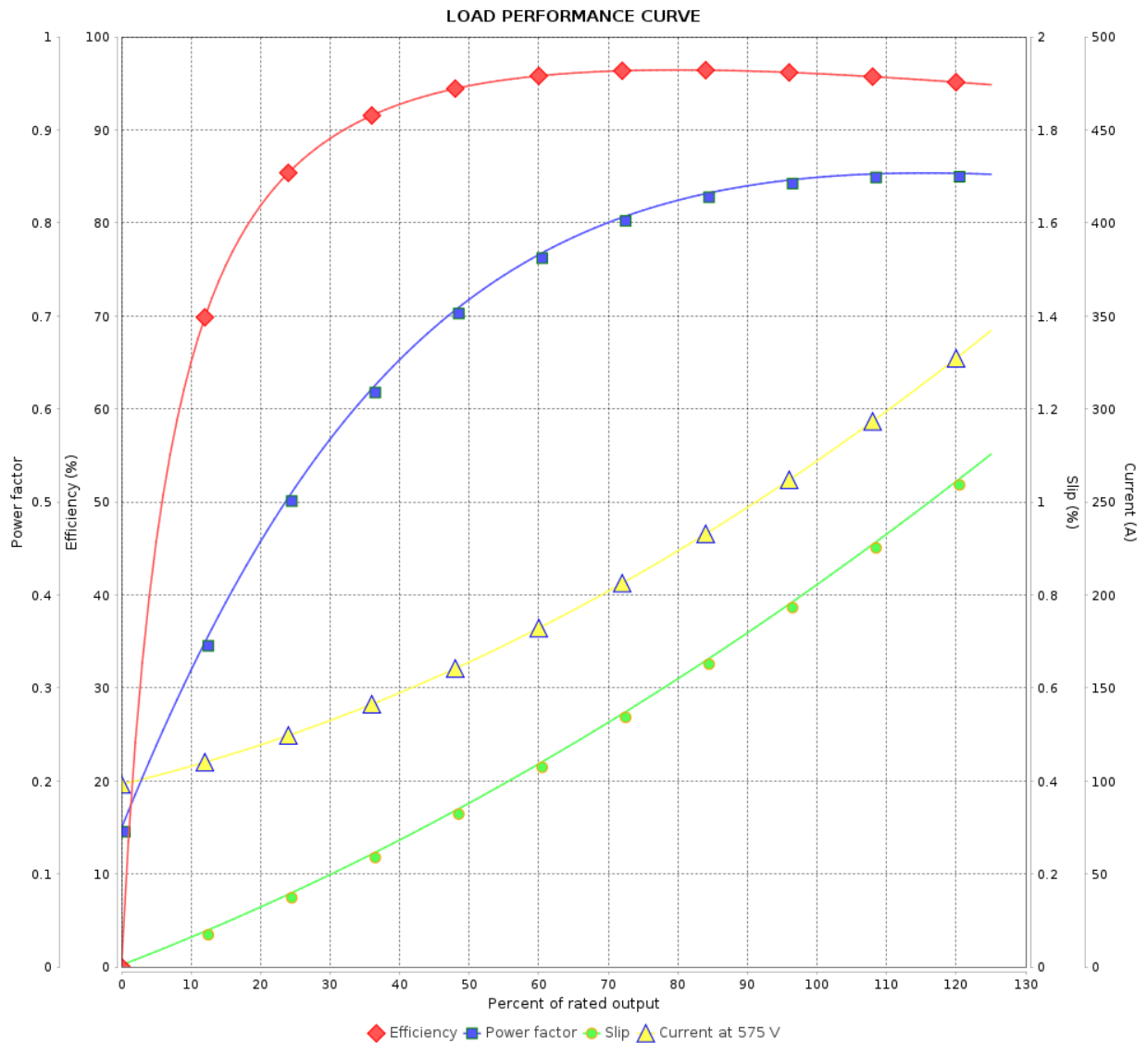
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

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

Product code : 14956071



Performance : 575 V 60 Hz 4P

Rated current	: 267 A	Moment of inertia (J)	: 3.77 kgm <sup>2</sup>
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 122 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: A

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