

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase Product code : 14456365

Frame	: 213/5HP	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 7.01 A	Protection degree	: IP55
L. R. Amperes	: 50.5 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: W-6
No load current	: 2.16 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3520 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 1.55 kgfm	Approx. weight <sup>3</sup>	: 77.0 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0197 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	87.5	89.5	89.5	Max. traction
Power Factor	0.00	0.75	0.84	0.88	Max. compression

		Drive end	Non drive end
Bearing type	:	6309 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 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		Page 1 / 2 Revision		
Checked by				
Date	15/01/2024			

# LOAD PERFORMANCE CURVE

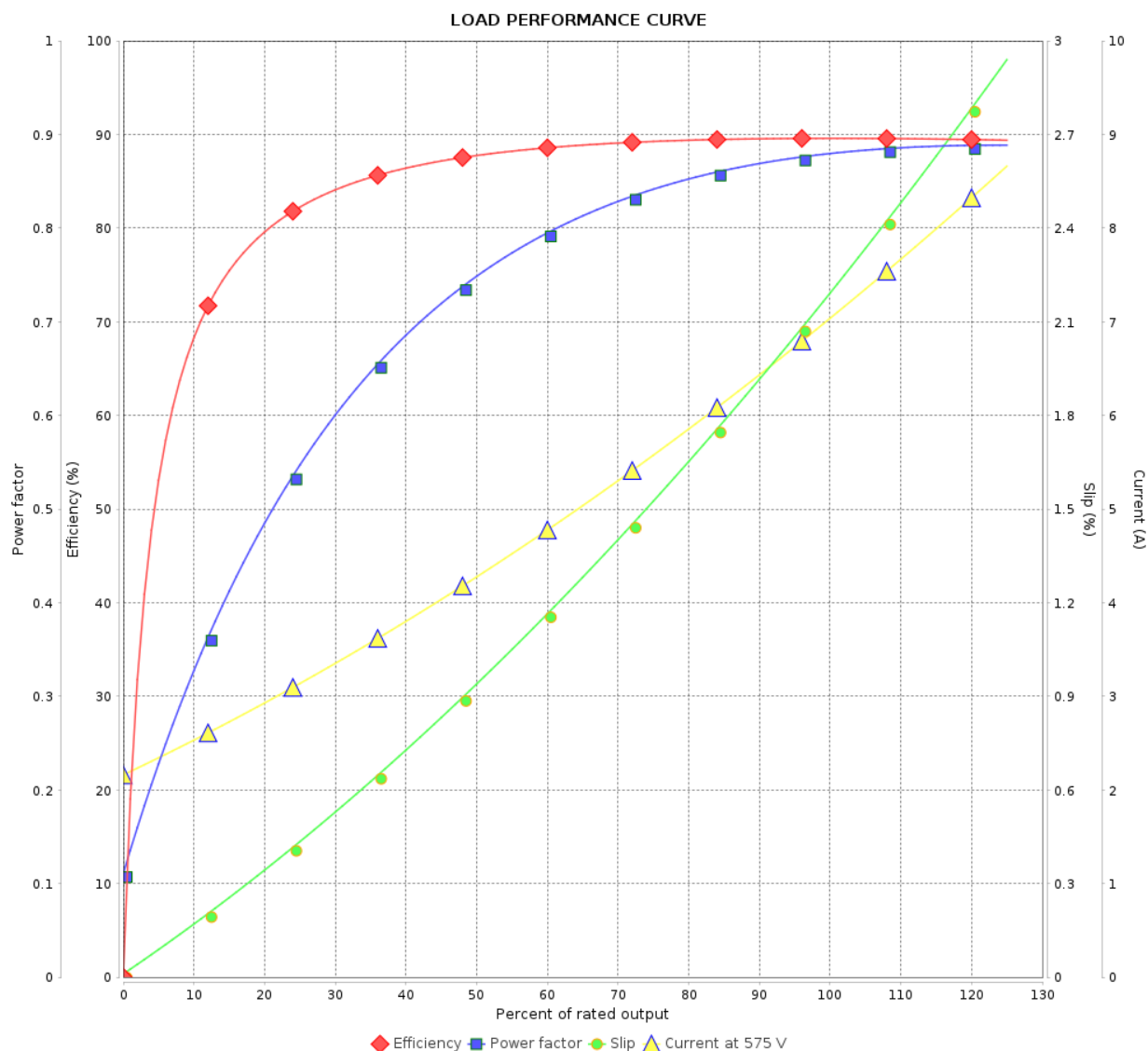
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium Efficiency  
Three-Phase

Product code : 14456365



Performance : 575 V 60 Hz 2P

Rated current : 7.01 A  
LRC : 7.2  
Rated torque : 1.55 kgfm  
Locked rotor torque : 210 %  
Breakdown torque : 300 %  
Rated speed : 3520 rpm

Moment of inertia (J) : 0.0197 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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