

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 14897360

Frame	: L447/9TS	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 400 HP (300 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 442 A	Protection degree	: IP55
L. R. Amperes	: 3845 A	Cooling method	: IC411 - TEFC
LRC	: 8.7x(Code J)	Mounting	: F-1
No load current	: 118 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3583 rpm	Noise level <sup>2</sup>	: 88.0 dB(A)
Slip	: 0.47 %	Starting method	: Direct On Line
Rated torque	: 81.0 kgfm	Approx. weight <sup>3</sup>	: 1432 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.87 kgm <sup>2</sup>		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.4	95.8	95.8	Max. traction	: 1339 kgf
Power Factor	0.00	0.80	0.85	0.89	Max. compression	: 2771 kgf

	Drive end	Non drive end
Bearing type	: 6314 C3	6314 C3
Sealing	: WSeal	WSeal
Lubrication interval	: 4000 h	4000 h
Lubricant amount	: 27 g	27 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		Revision
Checked by		1 / 2		
Date	13/01/2024			

# LOAD PERFORMANCE CURVE

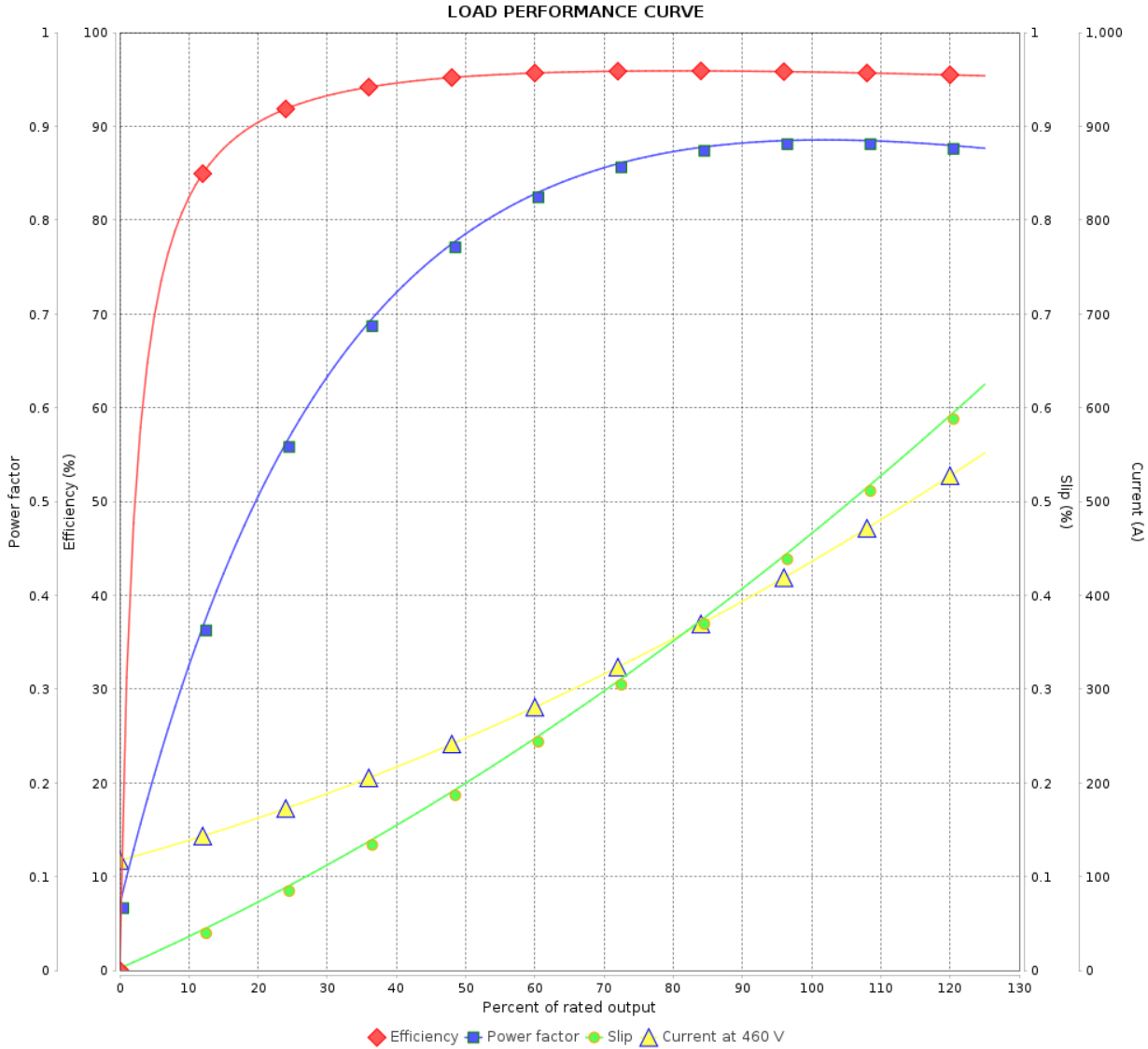
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14897360



Performance : 460 V 60 Hz 2P

Rated current	: 442 A	Moment of inertia (J)	: 3.87 kgm <sup>2</sup>
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 81.0 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3583 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	13/01/2024			