

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13739158

Frame	: 364/5TC	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 60 HP (45 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 1000 V	Altitude	: 1000 m.a.s.l.
Rated current	: 33.1 A	Protection degree	: IP55
L. R. Amperes	: 278 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code K)	Mounting	: F-1
No load current	: 13.7 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1480 rpm	Starting method	: Direct On Line
Slip	: 1.33 %	Approx. weight <sup>3</sup>	: 437 kg
Rated torque	: 29.4 kgfm		
Locked rotor torque	: 290 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.7126 kgm <sup>2</sup>		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.6	94.1	94.5	Max. traction	: 905 kgf
Power Factor	0.00	0.67	0.78	0.83	Max. compression	: 1342 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	14000 h	14000 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				
Checked by			Page	Revision
Date	18/03/2024		1 / 2	

# LOAD PERFORMANCE CURVE

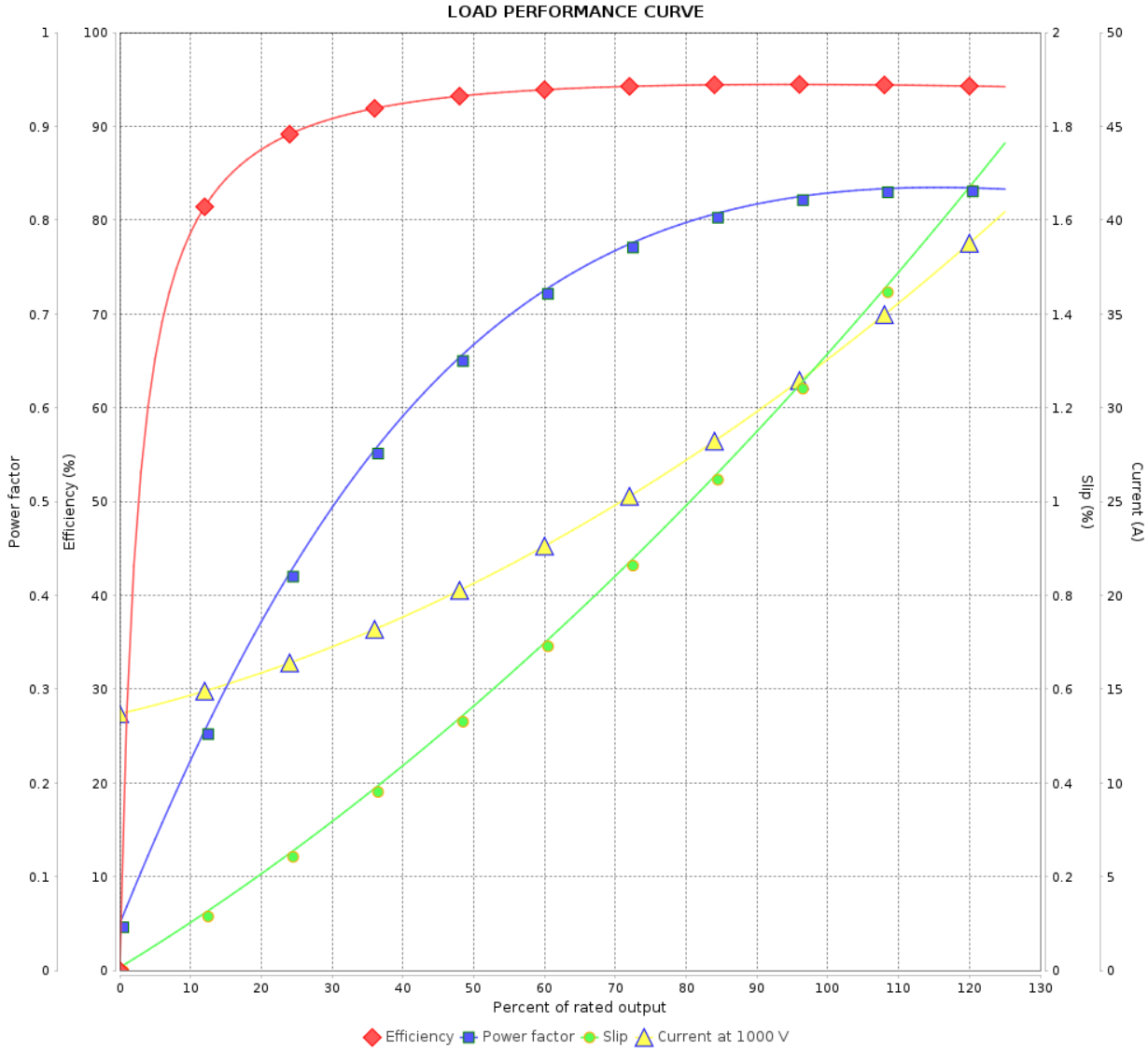
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13739158



Performance : 1000 V 50 Hz 4P

Rated current : 33.1 A  
 LRC : 8.4  
 Rated torque : 29.4 kgfm  
 Locked rotor torque : 290 %  
 Breakdown torque : 340 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.7126 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	18/03/2024			