

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 P Base NEMA Premium Efficiency Three-Phase		Product code : 13796187		
Frame	:	364/5HP		Locked rotor time	: 27s (cold) 15s (hot)	
Output	:	60 HP (45 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	:	54.7 A		Protection degree	: IP55	
L. R. Amperes	:	361 A		Cooling method	: IC411 - TEFC	
LRC	:	6.6x(Code G)		Mounting	: W-6	
No load current	:	19.2 A		Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	:	1775 rpm		Noise level <sup>2</sup>	: 67.0 dB(A)	
Slip	:	1.39 %		Starting method	: VFD	
Rated torque	:	24.5 kgfm		Approx. weight <sup>3</sup>	: 444 kg	
Locked rotor torque	:	240 %				
Breakdown torque	:	260 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.9448 kgm <sup>2</sup>				
Design	:	B				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	94.1	94.5	95.0	Max. traction	
Power Factor	0.00	0.75	0.83	0.87	Max. compression	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6316 C3		6314 C3		
Sealing	:	Lip Seal		Lip Seal		
Lubrication interval	:	5000 h		6000 h		
Lubricant amount	:	34 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	14/01/2024				1 / 2	

# LOAD PERFORMANCE CURVE

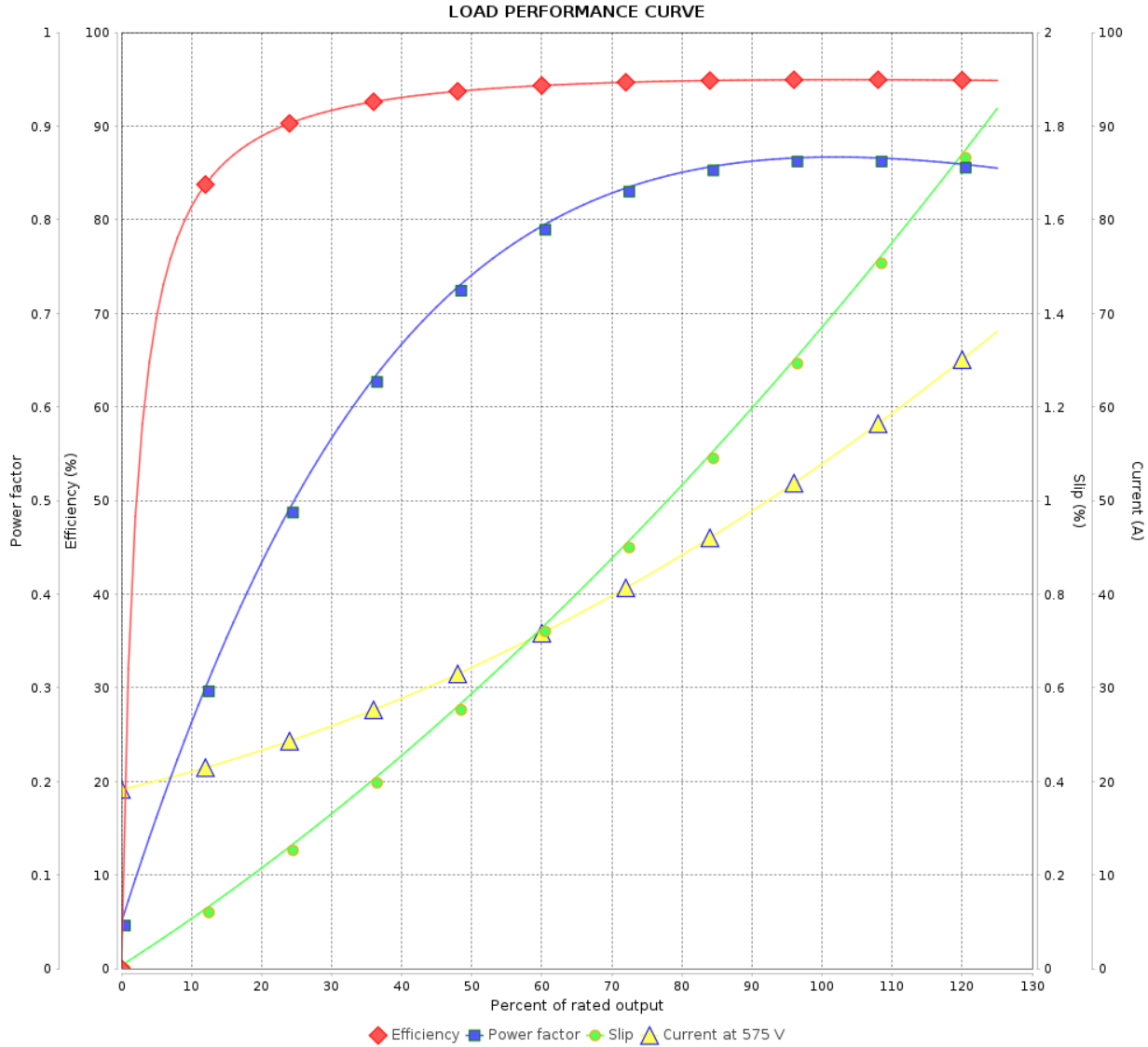
Three Phase Induction Motor - Squirrel Cage



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

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

Product code : 13796187



Performance : 575 V 60 Hz 4P

Rated current : 54.7 A  
 LRC : 6.6  
 Rated torque : 24.5 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 260 %  
 Rated speed : 1775 rpm

Moment of inertia (J) : 0.9448 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				
Date				