

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 12447100			
Frame	: 284/6T			Locked rotor time	: 43s (cold) 24s (hot)	
Output	: 25 HP (18.5 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	: 23.6 A			Protection degree	: IP55	
L. R. Amperes	: 146 A			Cooling method	: IC411 - TEFC	
LRC	: 6.2x(Code G)			Mounting	: F-1	
No load current	: 8.80 A			Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 1770 rpm			Noise level <sup>2</sup>	: 63.0 dB(A)	
Slip	: 1.67 %			Starting method	: Direct On Line	
Rated torque	: 10.3 kgfm			Approx. weight <sup>3</sup>	: 179 kg	
Locked rotor torque	: 240 %					
Breakdown torque	: 270 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.2153 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	91.7	92.4	93.0	93.6	Max. traction : 306 kgf	
Power Factor	0.45	0.70	0.80	0.84	Max. compression : 485 kgf	
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
6.8	5.8	5.3	3.1	2.2	1.4	1.0
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6311 C3		6211 C3		
Sealing	:	V'Ring		V'Ring		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	18 g		11 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	13/01/2024				1 / 2	

# LOAD PERFORMANCE CURVE

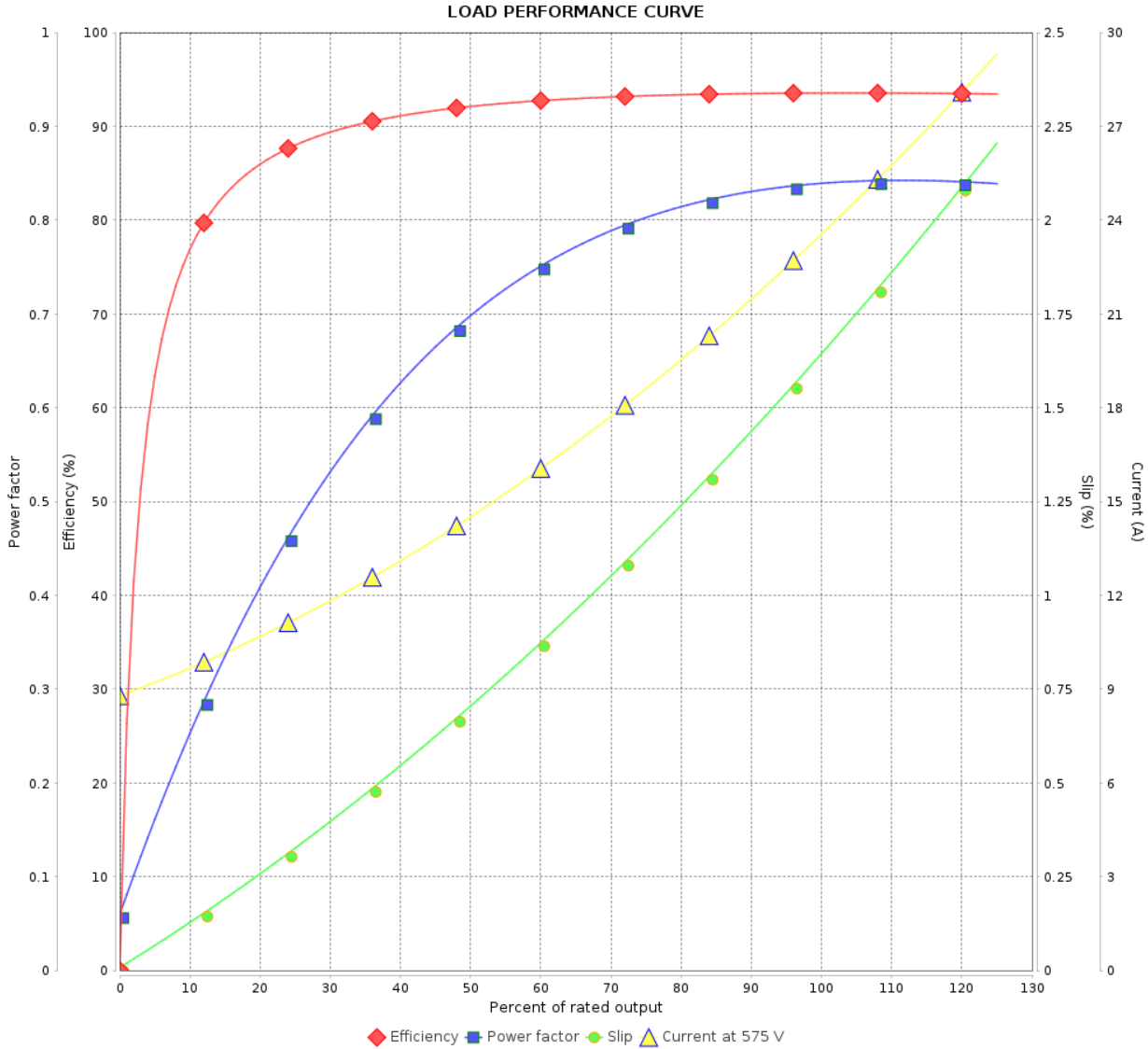
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447100



Performance : 575 V 60 Hz 4P

Rated current : 23.6 A  
 LRC : 6.2  
 Rated torque : 10.3 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 270 %  
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.2153 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		13/01/2024		