

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14454436		
Frame	: 324T	Locked rotor time	: 45s (cold) 25s (hot)			
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K			
Poles	: 6	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	: 24.6 A	Protection degree	: IP55			
L. R. Amperes	: 153 A	Cooling method	: IC411 - TEFC			
LRC	: 6.2x(Code G)	Mounting	: F-1			
No load current	: 11.2 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1180 rpm	Noise level ²	: 62.0 dB(A)			
Slip	: 1.67 %	Starting method	: Direct On Line			
Rated torque	: 15.4 kgfm	Approx. weight ³	: 260 kg			
Locked rotor torque	: 210 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.4555 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	92.4	93.0	93.0	Max. traction : 373 kgf		
Power Factor	0.65	0.77	0.81	Max. compression : 633 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6312 C3		6212 C3		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	21 g		13 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	15/01/2024				1 / 3	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	15/01/2024		2 / 3	

LOAD PERFORMANCE CURVE

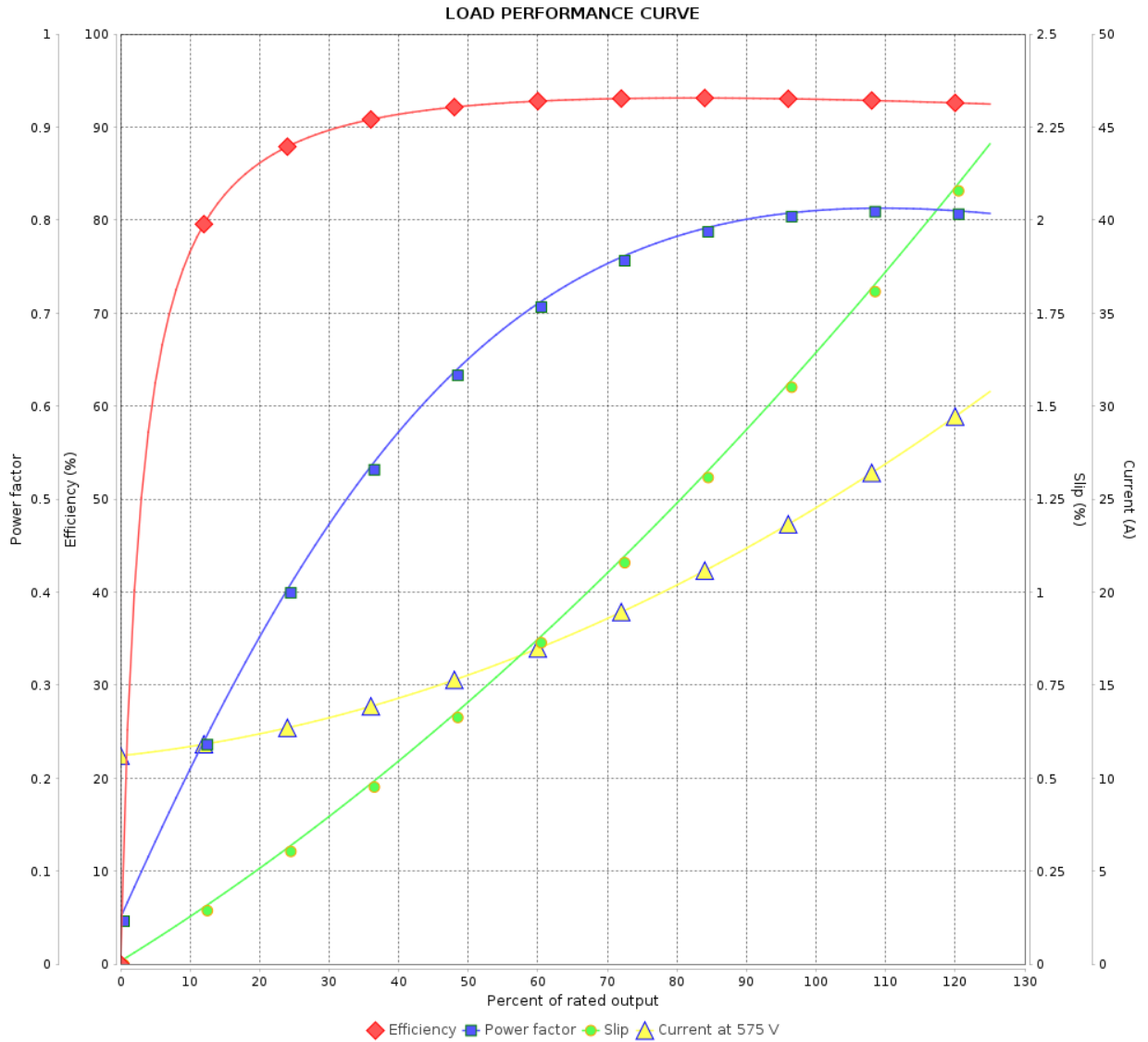
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 14454436



Performance : 575 V 60 Hz 6P

Rated current : 24.6 A
 LRC : 6.2
 Rated torque : 15.4 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 1180 rpm

Moment of inertia (J) : 0.4555 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		3 / 3		
Date		15/01/2024		