

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14407818		
Frame	: 286TC	Locked rotor time	: 30s (cold) 17s (hot)			
Output	: 30 HP (22 kW)	Temperature rise	: 105 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	: 28.1 A	Protection degree	: IP55			
L. R. Amperes	: 171 A	Cooling method	: IC411 - TEFC			
LRC	: 6.1x(Code G)	Mounting	: F-1			
No load current	: 9.84 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1770 rpm	Noise level ²	: 68.0 dB(A)			
Slip	: 1.67 %	Starting method	: Direct On Line			
Rated torque	: 12.3 kgfm	Approx. weight ³	: 229 kg			
Locked rotor torque	: 240 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.2175 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.0	93.0	93.6	Max. traction : 308 kgf		
Power Factor	0.70	0.80	0.84	Max. compression : 537 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6311 C3		6211 C3		
Sealing	:	Oil Seal		Lip Seal		
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	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

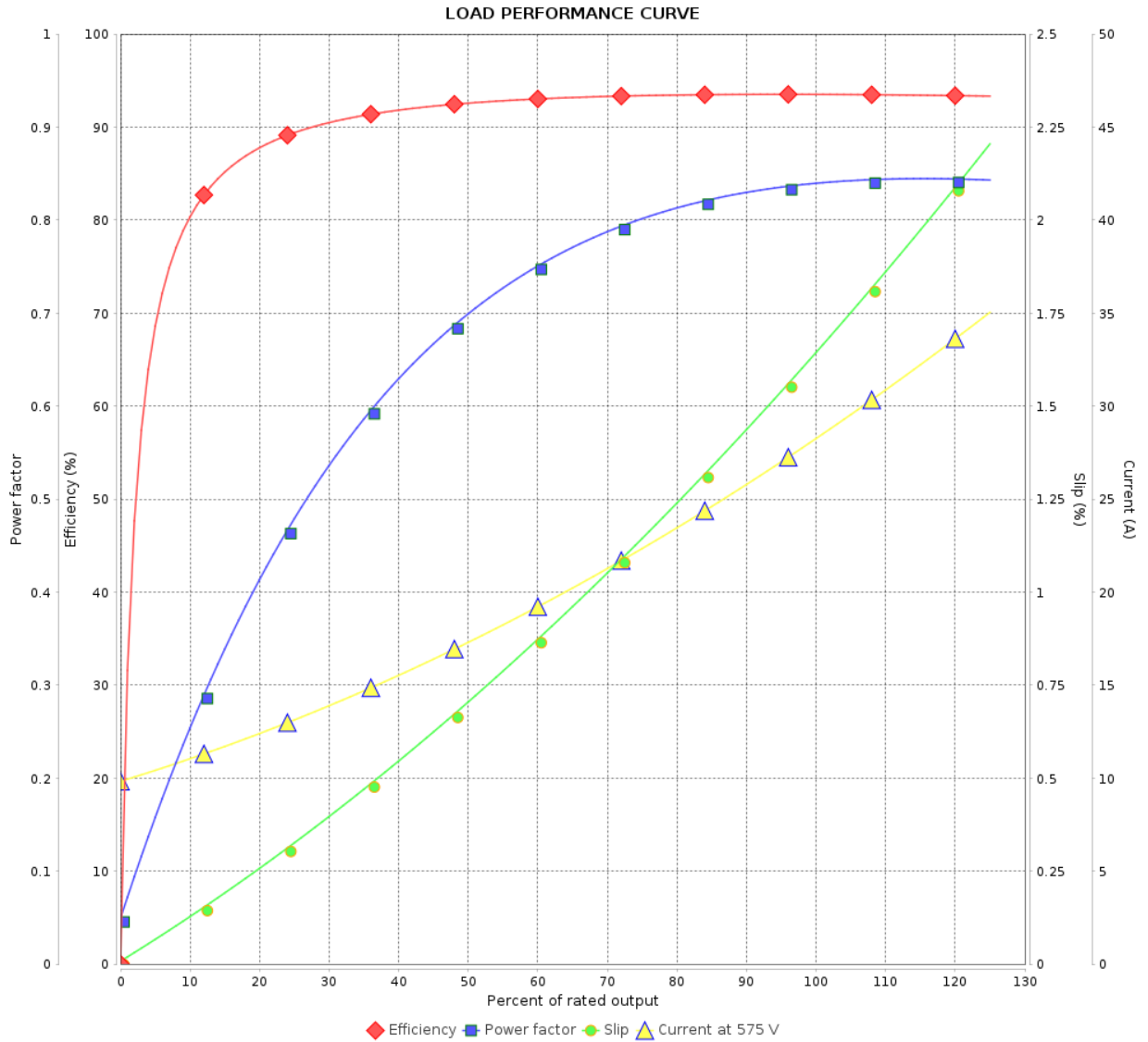
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 14407818



Performance : 575 V 60 Hz 4P

Rated current : 28.1 A
 LRC : 6.1
 Rated torque : 12.3 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 240 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.2175 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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