

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14603955	
Frame	: 143/5T	Locked rotor time	: 27s (cold) 15s (hot)		
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K		
Poles	: 2	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	: 2.15 A	Protection degree	: IP55		
L. R. Amperes	: 19.8 A	Cooling method	: IC411 - TEFC		
LRC	: 9.2x(Code L)	Mounting	: F-1		
No load current	: 0.960 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 3495 rpm	Noise level ²	: 68.0 dB(A)		
Slip	: 2.92 %	Starting method	: Direct On Line		
Rated torque	: 0.415 kgfm	Approx. weight ³	: 33.6 kg		
Locked rotor torque	: 370 %				
Breakdown torque	: 420 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0023 kgm ²				
Design	: B				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	80.0	84.0	85.5	Max. traction : 33 kgf	
Power Factor	0.64	0.76	0.82	Max. compression : 66 kgf	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6205 2RS	6204 2RS		
Sealing	:	Oil Seal	Lip Seal		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
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

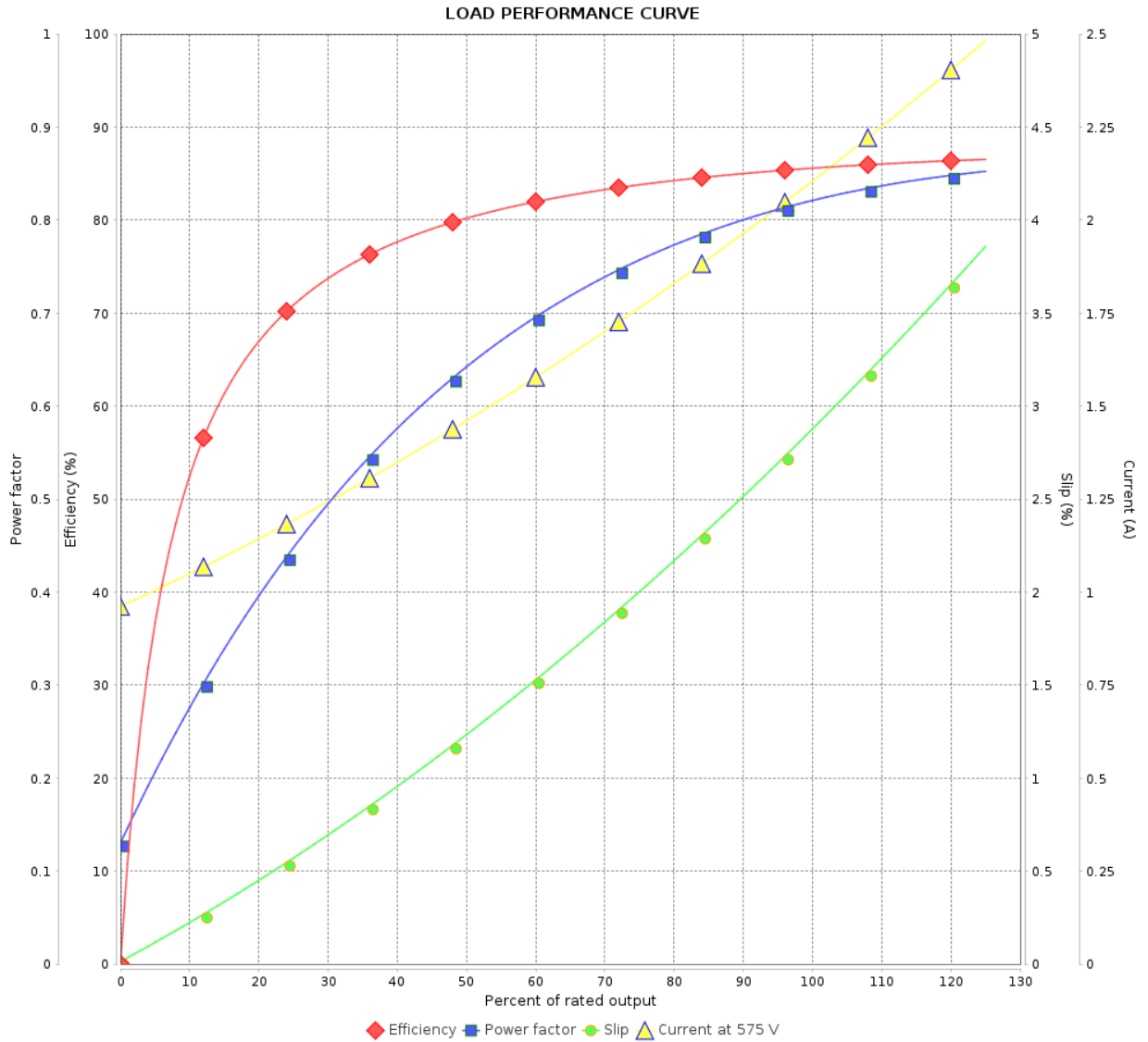
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 14603955



Performance : 575 V 60 Hz 2P

Rated current : 2.15 A
 LRC : 9.2
 Rated torque : 0.415 kgfm
 Locked rotor torque : 370 %
 Breakdown torque : 420 %
 Rated speed : 3495 rpm

Moment of inertia (J) : 0.0023 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 3 / 3	Revision
Checked by				
Date	15/01/2024			