

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 11360970	
Frame	: 364/5T		Locked rotor time	: 28s (cold) 16s (hot)	
Output	: 75 HP (55 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	: 66.6 A		Protection degree	: IP55	
L. R. Amperes	: 513 A		Cooling method	: IC411 - TEFC	
LRC	: 7.7x(Code H)		Mounting	: F-1	
No load current	: 22.4 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1782 rpm		Noise level ²	: 75.0 dB(A)	
Slip	: 1.00 %		Starting method	: Direct On Line	
Rated torque	: 30.5 kgfm		Approx. weight ³	: 464 kg	
Locked rotor torque	: 240 %				
Breakdown torque	: 290 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.9798 kgm ²				
Design	: A				
Output	25%	50%	75%	100%	
Efficiency (%)	94.0	94.5	95.0	95.4	
Power Factor	0.49	0.74	0.83	0.87	
Foundation loads					
Max. traction : 764 kgf					
Max. compression : 1228 kgf					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6314 C3	6314 C3		
Sealing	:	Oil Seal	Lip Seal		
Lubrication interval	:	9789 h	9789 h		
Lubricant amount	:	27 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					
Date	22/10/2023			Page	Revision
				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	22/10/2023		2 / 3	

LOAD PERFORMANCE CURVE

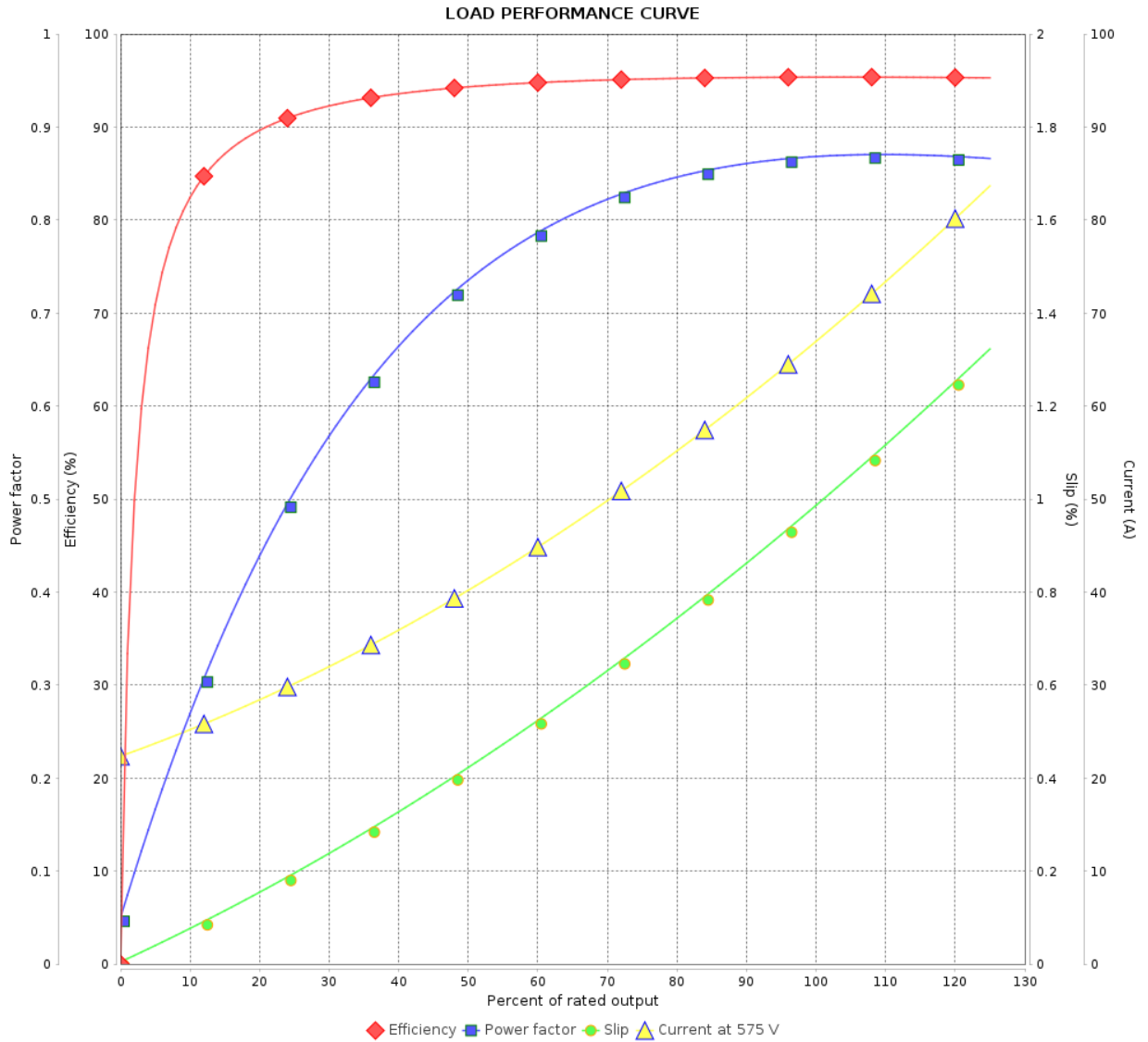
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11360970



Performance : 575 V 60 Hz 4P

Rated current : 66.6 A
 LRC : 7.7
 Rated torque : 30.5 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 1782 rpm

Moment of inertia (J) : 0.9798 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				