

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: Explosion Proof Standard Efficiency Three-Phase		Product code : 10668199		
Frame	: B56EX		Locked rotor time	: 27s (cold) 15s (hot)		
Output	: 0.5 HP (0.37 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	: 0.650 A		Protection degree	: IP44		
L. R. Amperes	: 4.42 A		Cooling method	: IC411 - TEFC		
LRC	: 6.8x(Code K)		Mounting	: F-1		
No load current	: 0.500 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1755 rpm		Noise level ²	: 50.0 dB(A)		
Slip	: 2.50 %		Starting method	: Direct On Line		
Rated torque	: 0.207 kgfm		Approx. weight ³	: 14.9 kg		
Locked rotor torque	: 220 %					
Breakdown torque	: 330 %					
Insulation class	: B					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0034 kgm ²					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	70.0	75.5	77.5	Max. traction : 14 kgf		
Power Factor	0.52	0.64	0.73	Max. compression : 29 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6203 ZZ		6203 ZZ		
Sealing	:	Without Bearing Seal		Without Bearing 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	130 °C

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

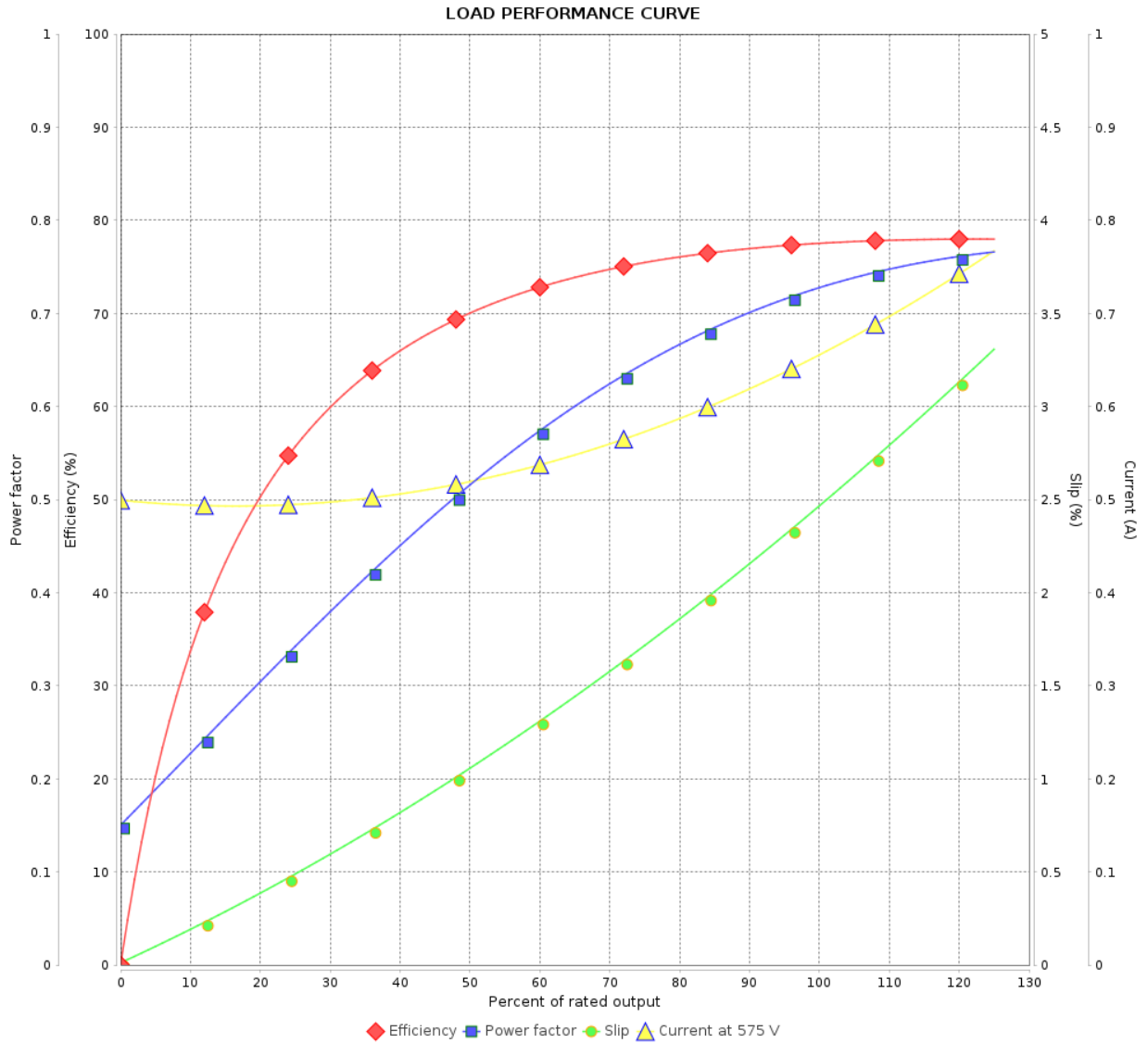
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 10668199



Performance : 575 V 60 Hz 4P

Rated current : 0.650 A
 LRC : 6.8
 Rated torque : 0.207 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 330 %
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0034 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : B
 Service factor : 1.15
 Temperature rise : 80 K

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