

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Close Coupled Pump NEMA Premium Efficiency Three-Phase		Product code : 11168086	
Frame	: 324JM		Locked rotor time	: 50s (cold) 28s (hot)	
Output	: 50 HP (37 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	: 47.3 A		Protection degree	: IP23	
L. R. Amperes	: 303 A		Cooling method	: IC01 - ODP	
LRC	: 6.4x(Code G)		Mounting	: F-1	
No load current	: 16.4 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3565 rpm		Noise level ²	: 74.0 dB(A)	
Slip	: 0.97 %		Starting method	: Direct On Line	
Rated torque	: 10.2 kgfm		Approx. weight ³	: 223 kg	
Locked rotor torque	: 229 %				
Breakdown torque	: 240 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.1615 kgm ²				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	92.2	92.4	93.6	93.6	
Power Factor	0.49	0.74	0.82	0.84	
Foundation loads					
Max. traction : 196 kgf					
Max. compression : 419 kgf					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6312 Z C3	6212 Z C3		
Sealing	:	Without Bearing Seal	Without Bearing Seal		
Lubrication interval	:	19658 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					
Date	14/01/2024			Page	Revision
				1 / 2	

LOAD PERFORMANCE CURVE

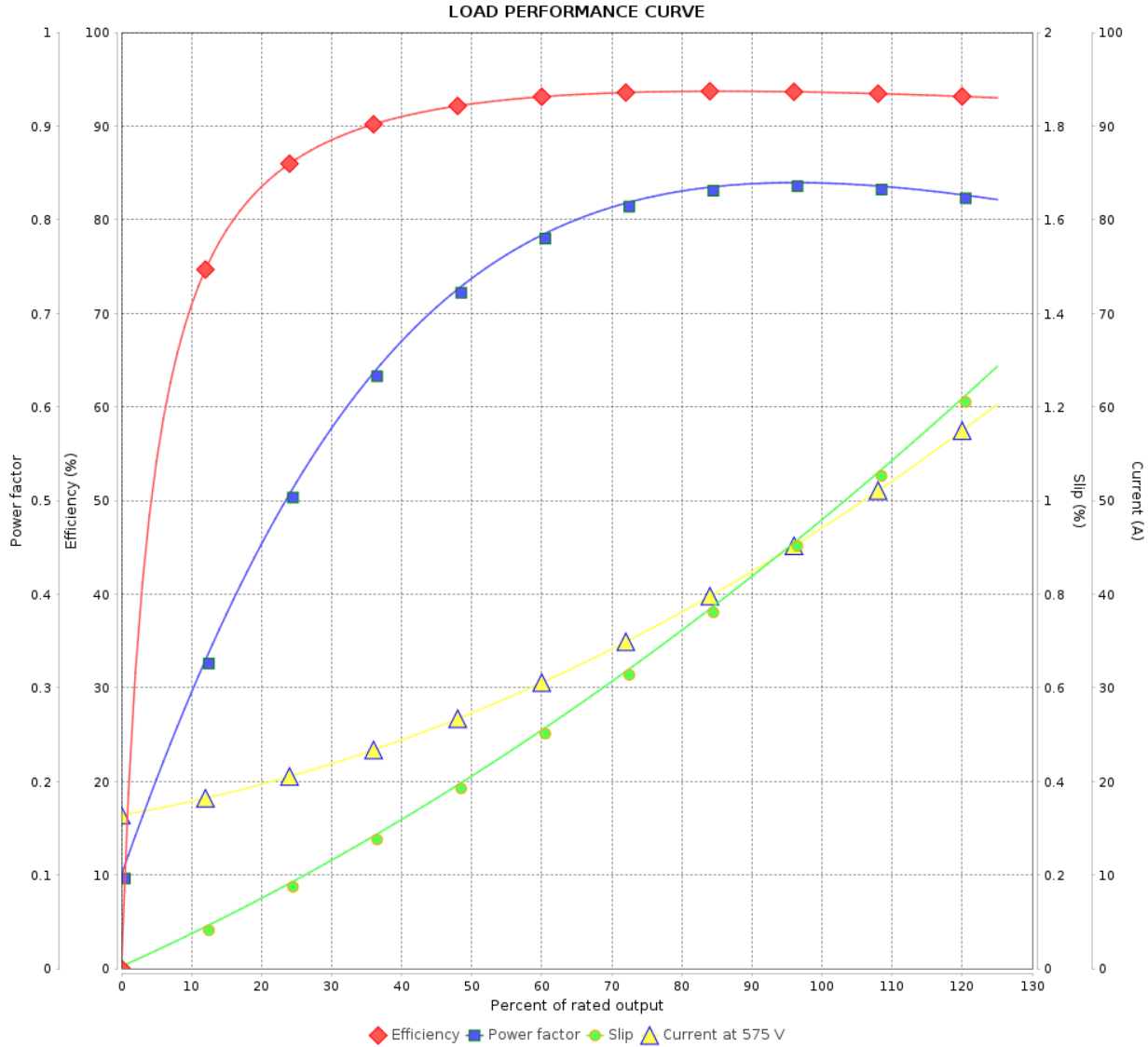
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11168086



Performance : 575 V 60 Hz 2P

Rated current : 47.3 A
 LRC : 6.4
 Rated torque : 10.2 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 240 %
 Rated speed : 3565 rpm

Moment of inertia (J) : 0.1615 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		2 / 2		
Date		14/01/2024		