

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14693180			
Frame	: 364/5T	Locked rotor time	: 39s (cold) 22s (hot)		
Output	: 40 HP (30 kW)	Temperature rise	: 80 K		
Poles	: 6	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	: 37.7 A	Protection degree	: IP23		
L. R. Amperes	: 241 A	Cooling method	: IC01 - ODP		
LRC	: 6.4x(Code G)	Mounting	: F-1		
No load current	: 12.6 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1185 rpm	Noise level ²	: 68.0 dB(A)		
Slip	: 1.25 %	Starting method	: Direct On Line		
Rated torque	: 24.5 kgfm	Approx. weight ³	: 337 kg		
Locked rotor torque	: 200 %				
Breakdown torque	: 229 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.9174 kgm ²				
Design	: B				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.6	94.1	94.1	Max. traction : 465 kgf	
Power Factor	0.74	0.82	0.85	Max. compression : 802 kgf	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6314 C3	6212 Z C3		
Sealing	:	Without Bearing Seal	Without Bearing Seal		
Lubrication interval	:	20000 h	20000 h		
Lubricant amount	:	27 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
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Date	15/01/2024			1 / 2	

LOAD PERFORMANCE CURVE

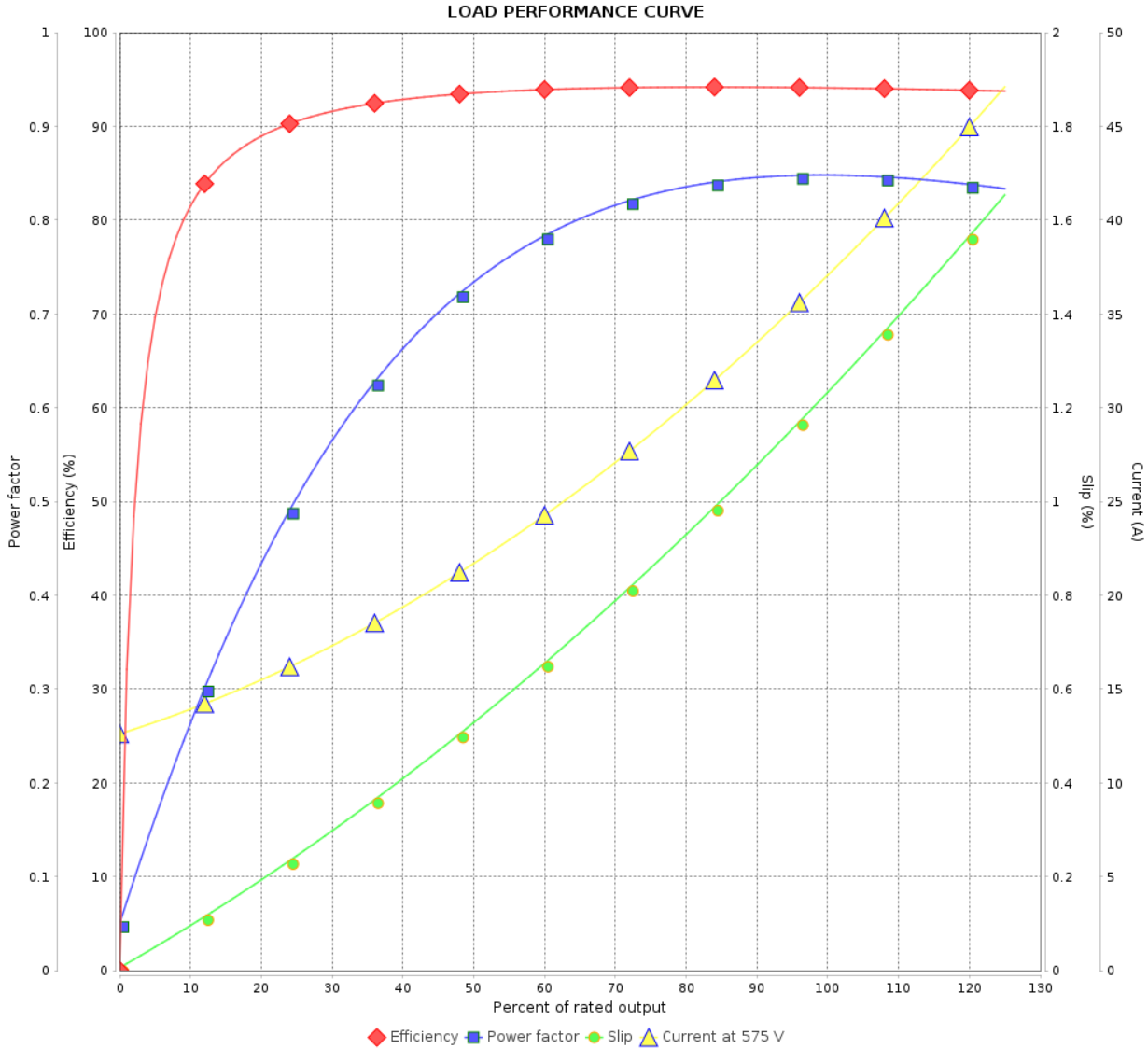
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14693180



Performance : 575 V 60 Hz 6P

Rated current : 37.7 A
 LRC : 6.4
 Rated torque : 24.5 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1185 rpm

Moment of inertia (J) : 0.9174 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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