

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14272480				
Frame : 364/5TS Output : 100 HP (75 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 92.8 A L. R. Amperes : 612 A LRC : 6.6x(Code G) No load current : 23.6 A Rated speed : 3555 rpm Slip : 1.25 % Rated torque : 20.4 kgfm Locked rotor torque : 180 % Breakdown torque : 229 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.3034 kgm ² Design : B	Locked rotor time : 23s (cold) 13s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP23 Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 84.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 330 kg					
Output	25%	50%	75%	100%	Foundation loads Max. traction : 363 kgf Max. compression : 693 kgf	
Efficiency (%)	92.2	92.4	93.6	93.6		
Power Factor	0.55	0.77	0.84	0.87		
			<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	:	14418 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
Performed by						
Checked by					Page	Revision
Date	15/01/2024				1 / 2	

LOAD PERFORMANCE CURVE

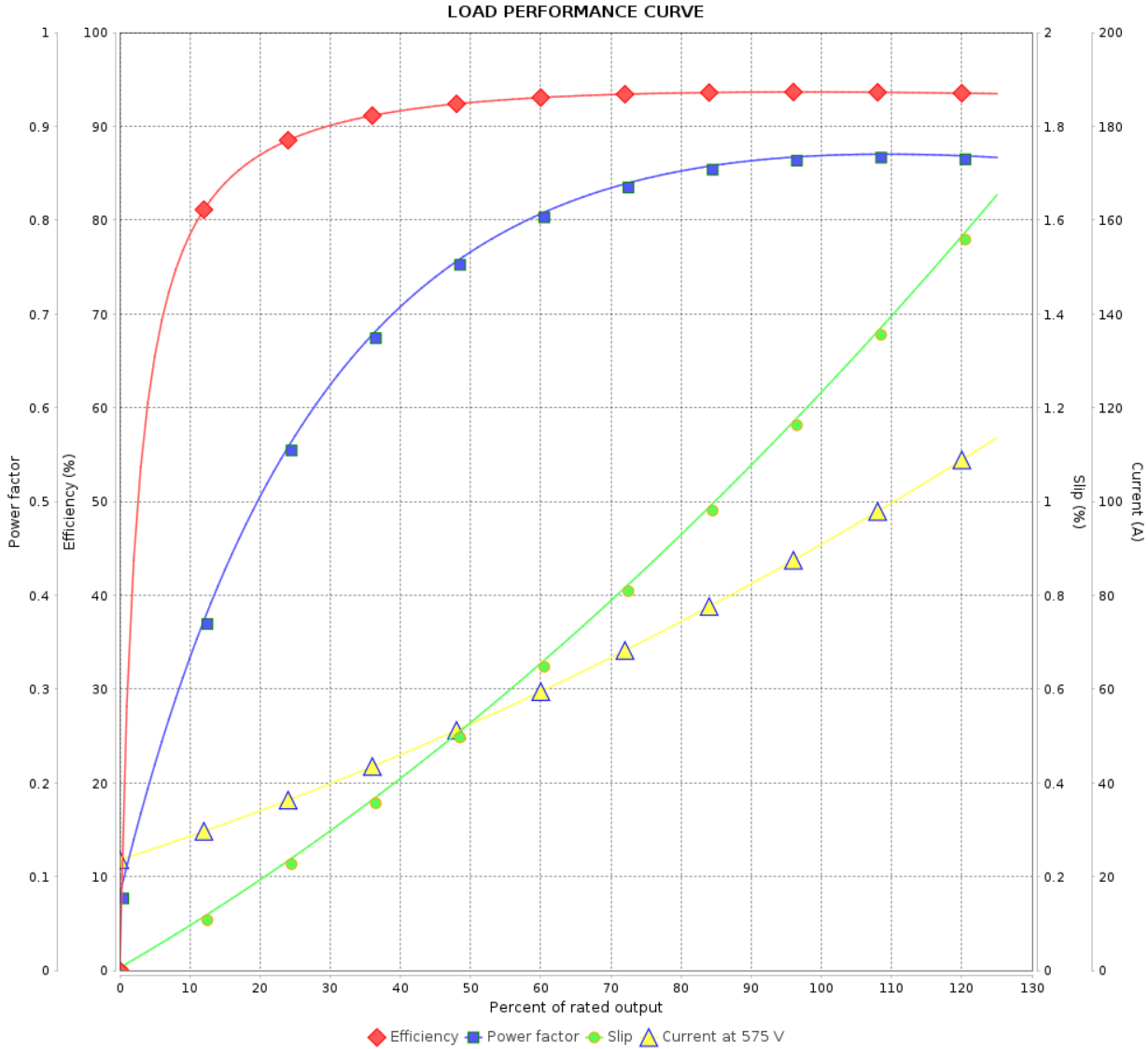
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272480



Performance : 575 V 60 Hz 2P

Rated current : 92.8 A
 LRC : 6.6
 Rated torque : 20.4 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 229 %
 Rated speed : 3555 rpm

Moment of inertia (J) : 0.3034 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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