

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	16390948			
Frame	: 445/7TS	Locked rotor time	: 32s (cold) 18s (hot)			
Output	: 250 HP (185 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	: 215 A	Protection degree	: IP55			
L. R. Amperes	: 1442 A	Cooling method	: IC411 - TEFC			
LRC	: 6.7x(Code G)	Mounting	: F-1			
No load current	: 48.0 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 3573 rpm	Noise level ²	: 81.0 dB(A)			
Slip	: 0.75 %	Starting method	: Direct On Line			
Rated torque	: 50.8 kgfm	Approx. weight ³	: 1040 kg			
Locked rotor torque	: 210 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 2.12 kgm ²					
Design	: B					
Output	50%	75%	100%			
Efficiency (%)	95.4	95.8	95.8			
Power Factor	0.84	0.89	0.90			
Foundation loads		Max. traction : 546 kgf				
		Max. compression : 1586 kgf				
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.8	3.6	3.0	2.8	1.7	1.2	0.7
Bearing type		<u>Drive end</u>		<u>Non drive end</u>		
Sealing		6314 C3		6314 C3		
Lubrication interval		Viton Oil Seal		Viton Oil Seal		
Lubricant amount		4000 h		4000 h		
Lubricant type		27 g		27 g		
		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	22/10/2023				1 / 2	

LOAD PERFORMANCE CURVE

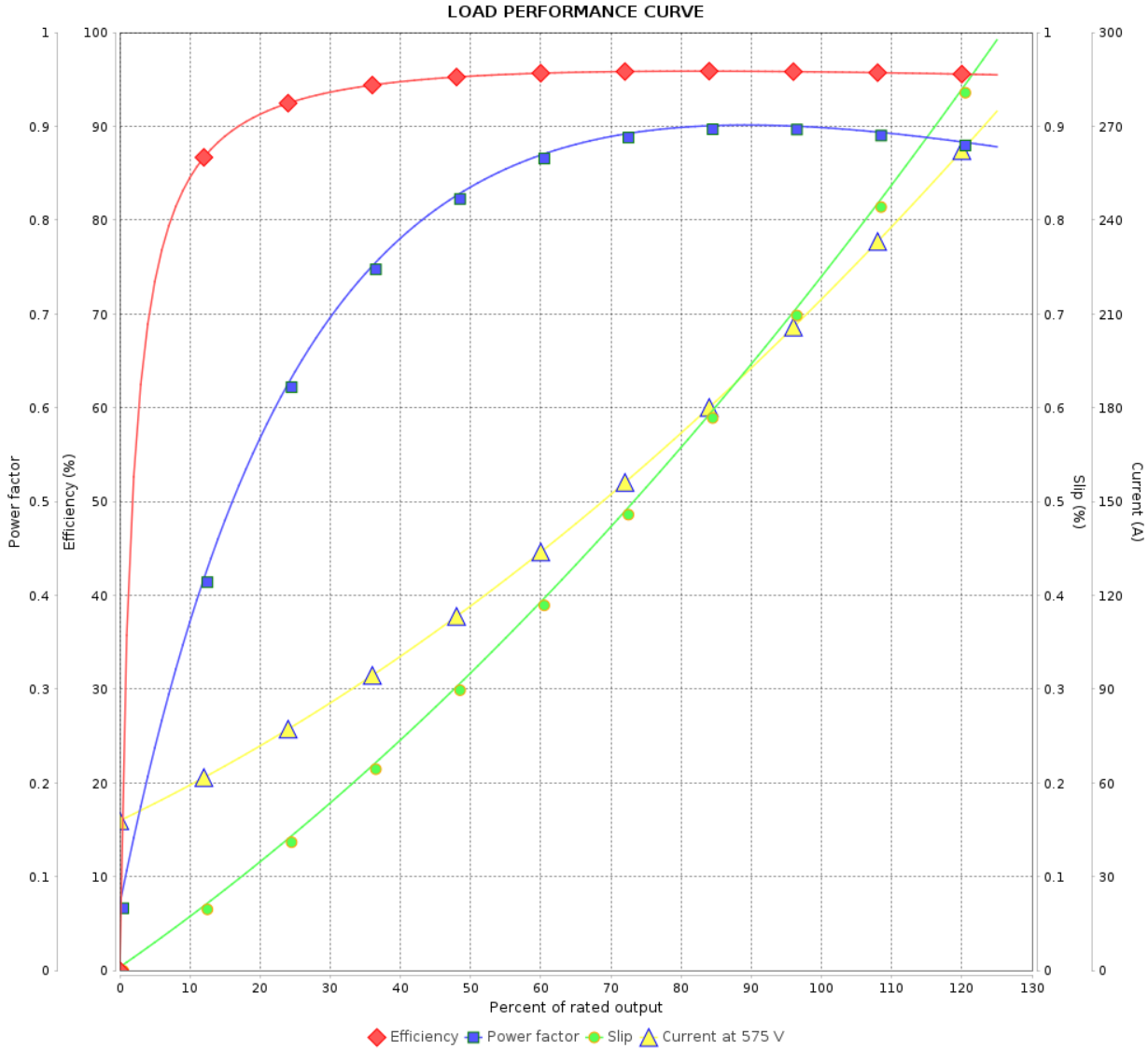
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 16390948



Performance : 575 V 60 Hz 2P

Rated current : 215 A
 LRC : 6.7
 Rated torque : 50.8 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 3573 rpm

Moment of inertia (J) : 2.12 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 2 / 2	Revision
Checked by				
Date	22/10/2023			