

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 12408148			
Frame	: 445/7TSC			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	: 1067 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%	Foundation loads		
Efficiency (%)	95.4	95.8	95.8	Max. traction : 532 kgf		
Power Factor	0.84	0.89	0.90	Max. compression : 1599 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
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Viton Oil Seal		Viton Oil Seal		
Lubrication interval	:	4000 h		4000 h		
Lubricant amount	:	27 g		27 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	19/03/2024				1 / 2	

LOAD PERFORMANCE CURVE

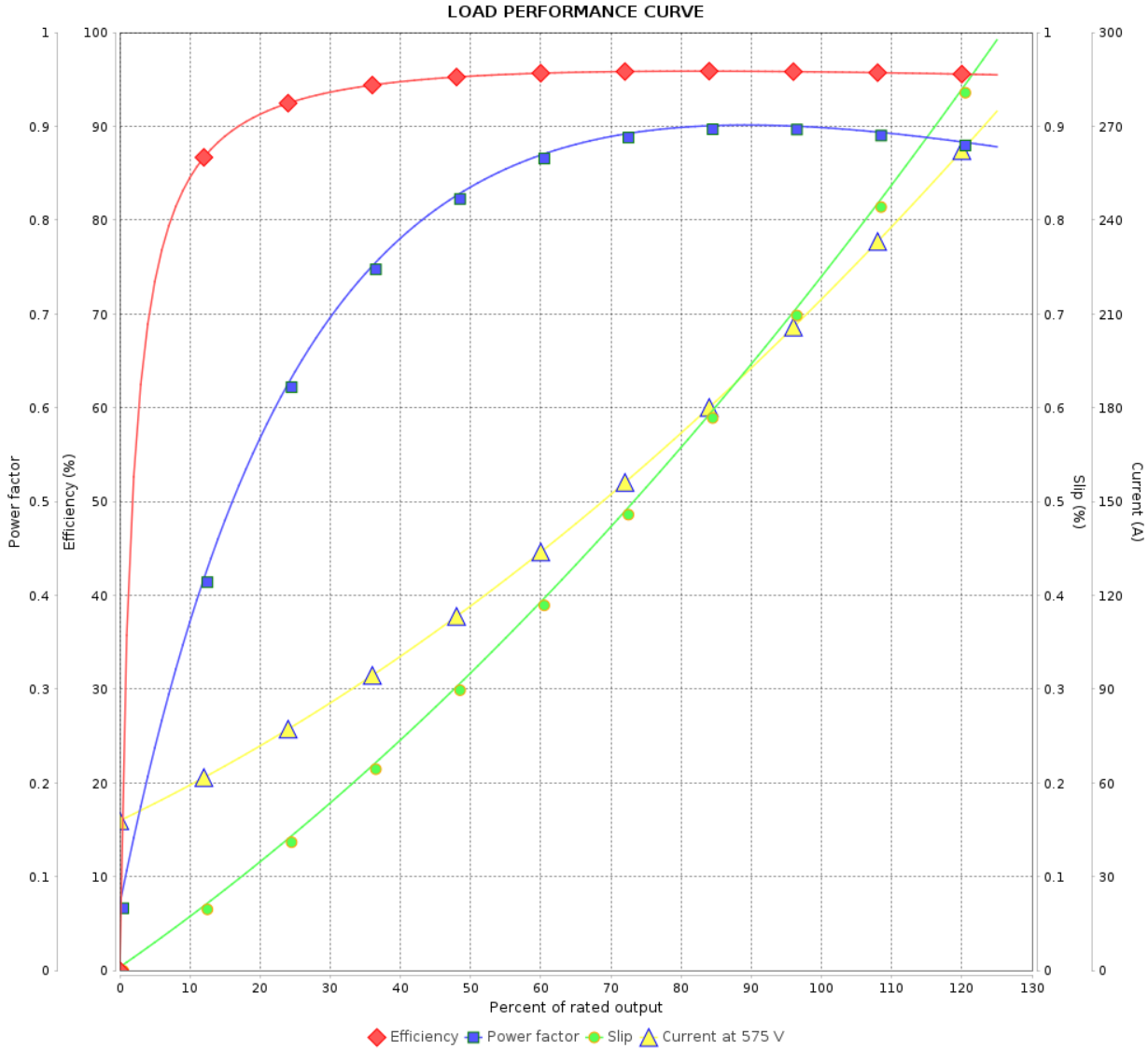
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12408148



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	19/03/2024			