

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 12001938			
Frame	: 404/5TSC			Locked rotor time	: 25s (cold) 14s (hot)	
Output	: 100 HP (75 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	: 89.6 A			Protection degree	: IP55	
L. R. Amperes	: 582 A			Cooling method	: IC411 - TEFC	
LRC	: 6.5x(Code G)			Mounting	: F-1	
No load current	: 20.8 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3545 rpm			Noise level ²	: 79.0 dB(A)	
Slip	: 1.53 %			Starting method	: Direct On Line	
Rated torque	: 20.5 kgfm			Approx. weight ³	: 514 kg	
Locked rotor torque	: 240 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.5561 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.0	94.1	94.1	Max. traction	: 267 kgf	
Power Factor	0.83	0.88	0.89	Max. compression	: 781 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)
5.9	4.6	4.4	2.8	1.6	0.9	0.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Oil Seal		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	18/03/2024				1 / 2	

LOAD PERFORMANCE CURVE

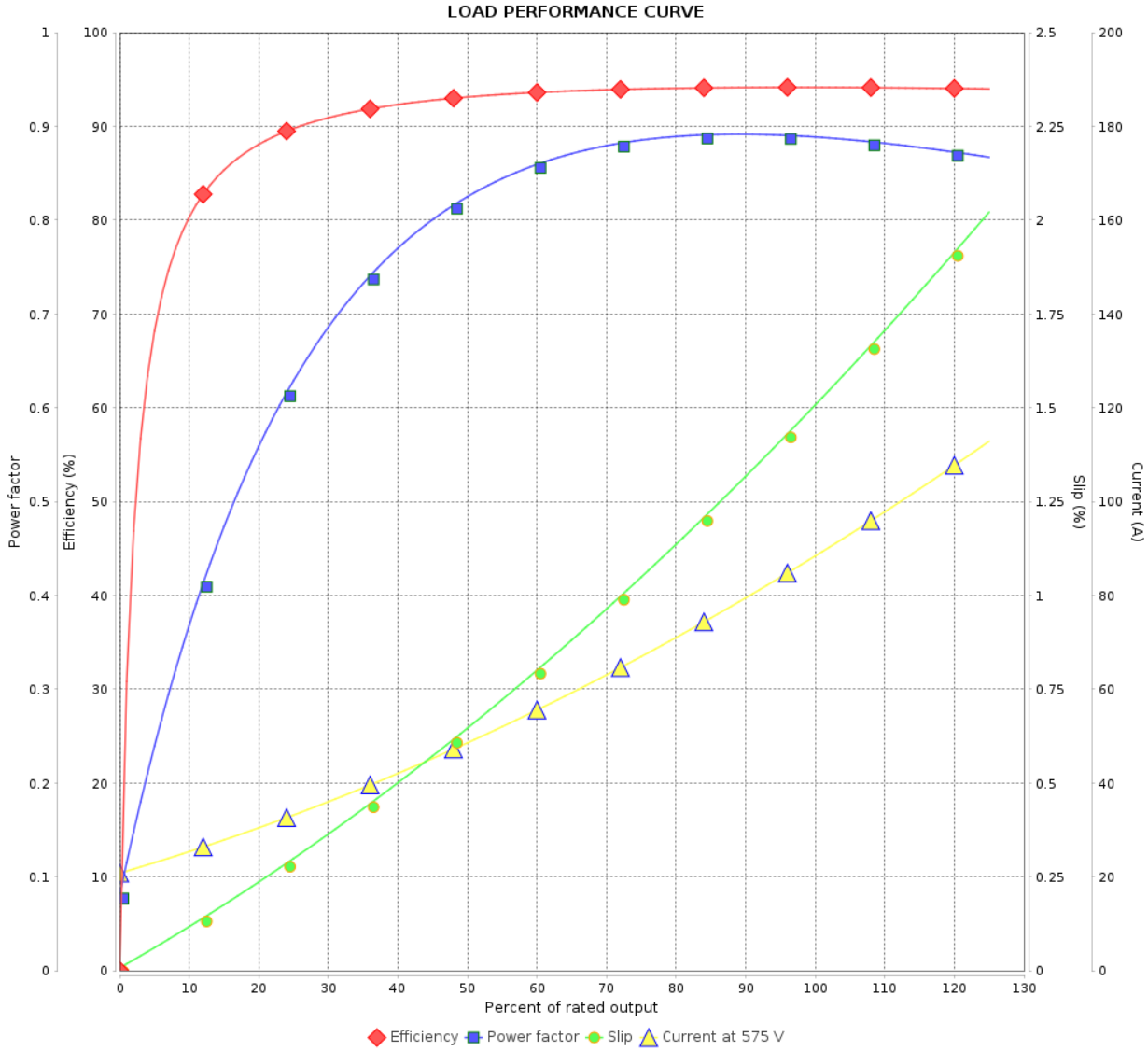
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12001938



Performance : 575 V 60 Hz 2P

Rated current : 89.6 A
 LRC : 6.5
 Rated torque : 20.5 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 3545 rpm

Moment of inertia (J) : 0.5561 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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