

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 12703493			
Frame	: L447/9T		Locked rotor time	: 39s (cold) 22s (hot)		
Output	: 450 HP (330 kW)		Temperature rise	: 80 K		
Poles	: 4		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	: 410 A		Protection degree	: IP55		
L. R. Amperes	: 3653 A		Cooling method	: IC411 - TEFC		
LRC	: 8.9x(Code K)		Mounting	: F-1		
No load current	: 172 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1791 rpm		Noise level <sup>2</sup>	: 79.0 dB(A)		
Slip	: 0.50 %		Starting method	: Direct On Line		
Rated torque	: 182 kgfm		Approx. weight <sup>3</sup>	: 1574 kg		
Locked rotor torque	: 320 %					
Breakdown torque	: 330 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 6.40 kgm <sup>2</sup>					
Design	: A					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.4	96.2	96.2	Max. traction : 4477 kgf		
Power Factor	0.66	0.78	0.84	Max. compression : 6051 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)
4.5	3.3	2.7	2.5	1.5	1.1	0.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6322 C3		6319 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	6000 h		8000 h		
Lubricant amount	:	60 g		45 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	13/01/2024				1 / 2	

# LOAD PERFORMANCE CURVE

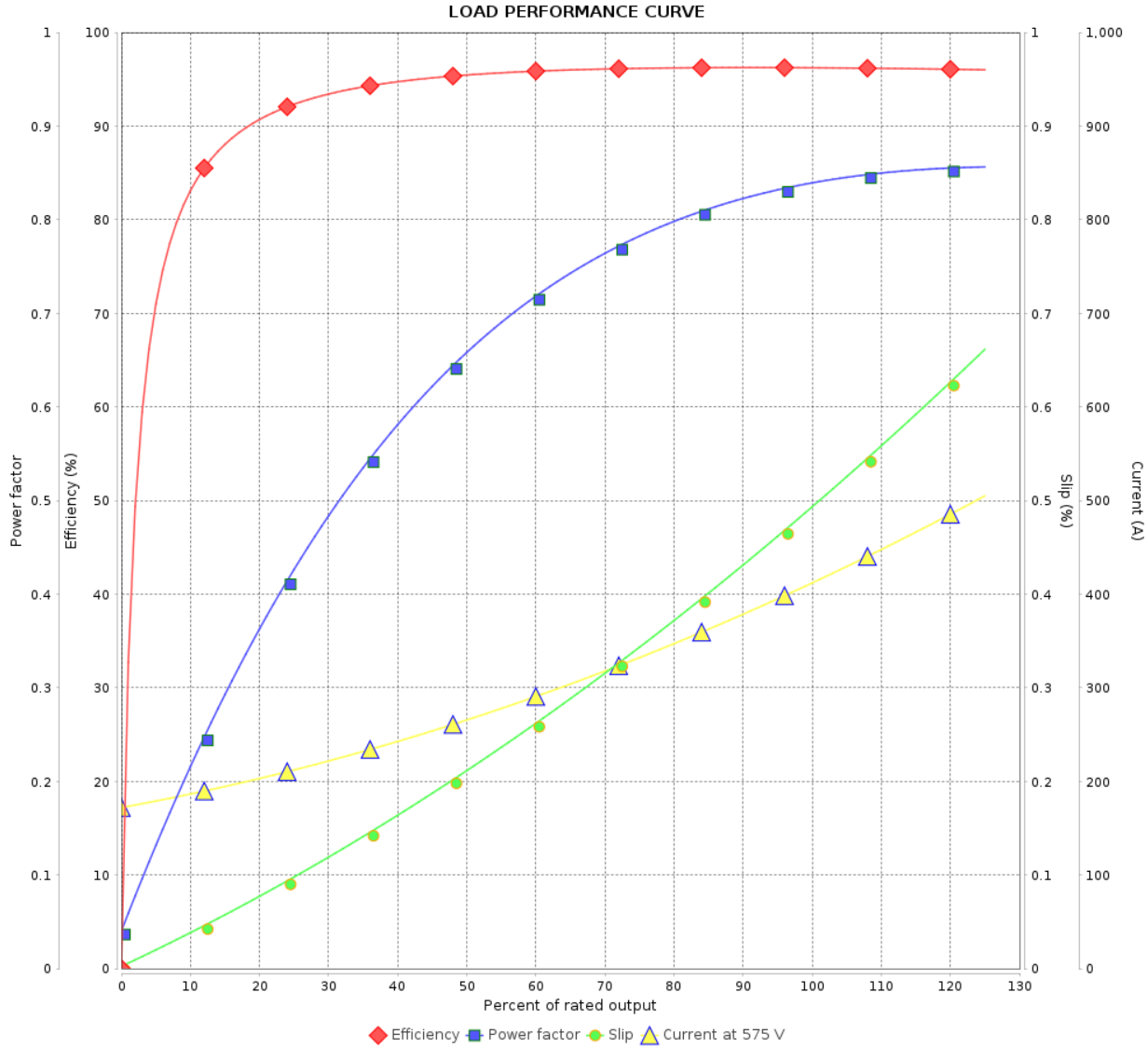
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12703493



Performance : 575 V 60 Hz 4P

Rated current	: 410 A	Moment of inertia (J)	: 6.40 kgm <sup>2</sup>
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 182 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1791 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	13/01/2024			