

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 13880068			
Frame	: 404/5T			Locked rotor time	: 23s (cold) 13s (hot)	
Output	: 100 HP (75 kW)			Temperature rise	: 80 K	
Poles	: 4			Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz			Ambient temperature	: -20°C to +40°C	
Rated voltage	: 208 V			Altitude	: 1000 m.a.s.l.	
Rated current	: 245 A			Protection degree	: IP55	
L. R. Amperes	: 1792 A			Cooling method	: IC411 - TEFC	
LRC	: 7.3x(Code H)			Mounting	: F-1	
No load current	: 65.5 A			Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 1780 rpm			Noise level <sup>2</sup>	: 68.0 dB(A)	
Slip	: 1.11 %			Starting method	: Direct On Line	
Rated torque	: 40.8 kgfm			Approx. weight <sup>3</sup>	: 537 kg	
Locked rotor torque	: 240 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 1.26 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.0	95.0	95.4	Max. traction	: 776 kgf
Power Factor	0.00	0.77	0.84	0.87	Max. compression	: 1312 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)
4.7	3.8	3.7	2.2	1.5	0.9	0.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-316 C3		6314 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	7000 h		12000 h		
Lubricant amount	:	34 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
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# LOAD PERFORMANCE CURVE

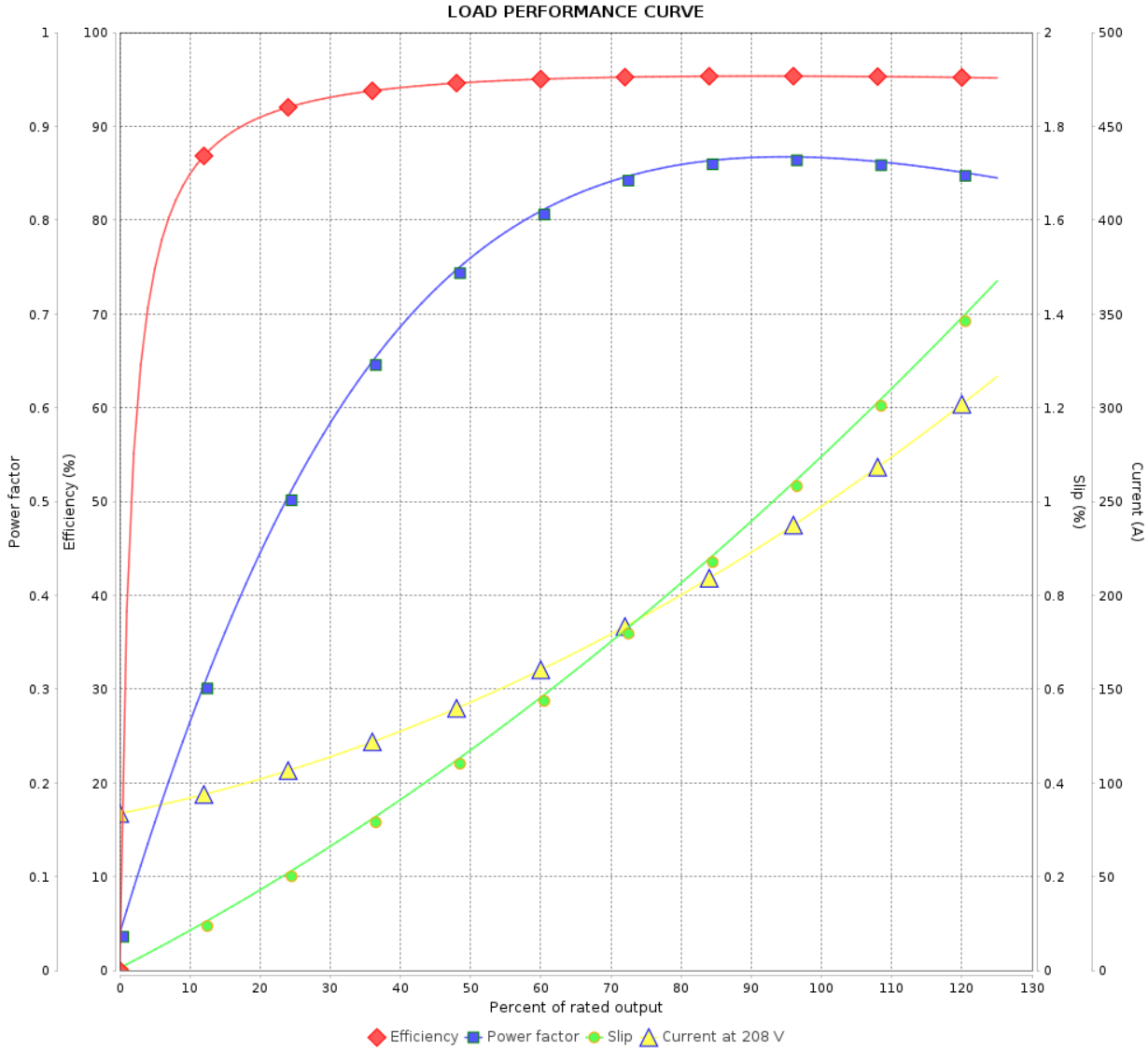
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13880068



Performance : 208 V 60 Hz 4P

Rated current : 245 A	Moment of inertia (J) : 1.26 kgm <sup>2</sup>
LRC : 7.3	Duty cycle : Cont.(S1)
Rated torque : 40.8 kgfm	Insulation class : F
Locked rotor torque : 240 %	Service factor : 1.25
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 1780 rpm	Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Date	13/01/2024			