

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 13500648			
Frame	: 586/7TZ			Locked rotor time	: 34s (cold) 19s (hot)	
Output	: 300 HP (220 kW)			Temperature rise	: 80 K	
Poles	: 4			Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz			Ambient temperature	: -20°C to +40°C	
Rated voltage	: 460 V			Altitude	: 1000 m.a.s.l.	
Rated current	: 350 A			Protection degree	: IP55	
L. R. Amperes	: 2520 A			Cooling method	: IC411 - TEFC	
LRC	: 7.2x(Code H)			Mounting	: F-1	
No load current	: 130 A			Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 1791 rpm			Noise level <sup>2</sup>	: 81.0 dB(A)	
Slip	: 0.50 %			Starting method	: Direct On Line	
Rated torque	: 122 kgfm			Approx. weight <sup>3</sup>	: 1397 kg	
Locked rotor torque	: 229 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 6.80 kgm <sup>2</sup>					
Design	: A					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.4	95.8	96.2	Max. traction : 1465 kgf	
Power Factor	0.00	0.70	0.80	0.82	Max. compression : 2862 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)
4.1	2.9	2.3	2.6	1.6	1.2	0.7
Bearing type	:	<u>Drive end</u> NU-324 C3		<u>Non drive end</u> 6319 C3		
Sealing	:	Taconite Labyrinth		Taconite Labyrinth		
Lubrication interval	:	3000 h		8000 h		
Lubricant amount	:	72 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.		
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Customer : \_\_\_\_\_

### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

### Space heater information

Voltage: 200 - 240 V

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# LOAD PERFORMANCE CURVE

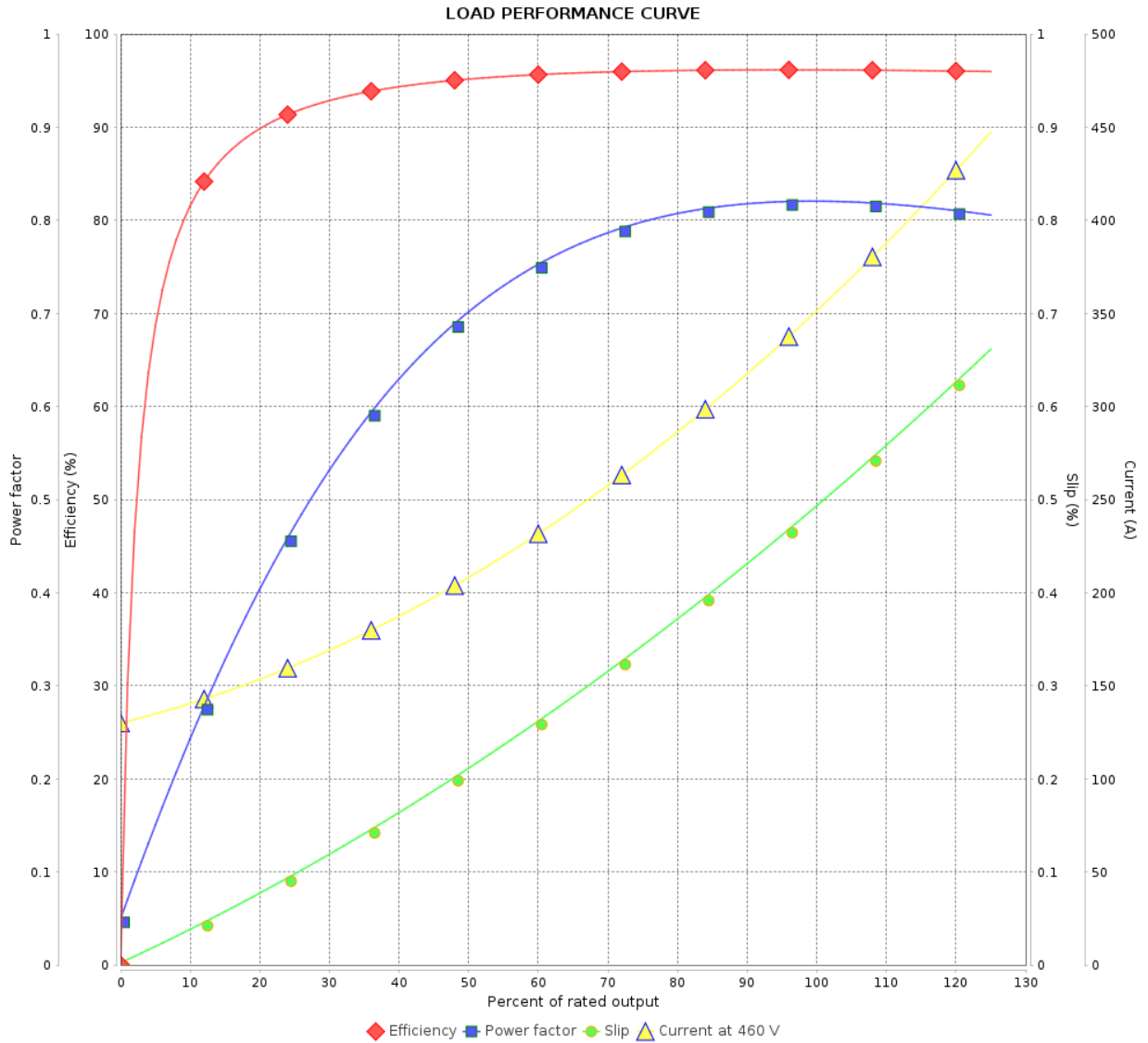
## Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13500648



Performance : 460 V 60 Hz 4P

Rated current : 350 A  
 LRC : 7.2  
 Rated torque : 122 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 260 %  
 Rated speed : 1791 rpm

Moment of inertia (J) : 6.80 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

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