

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 ¹	: Both (CW and CCW)
Rated speed	: 1791 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 0.50 %	Starting method	: Direct On Line
Rated torque	: 122 kgfm	Approx. weight ³	: 1397 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 6.80 kgm ²		
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

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: NU-324 C3	: 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

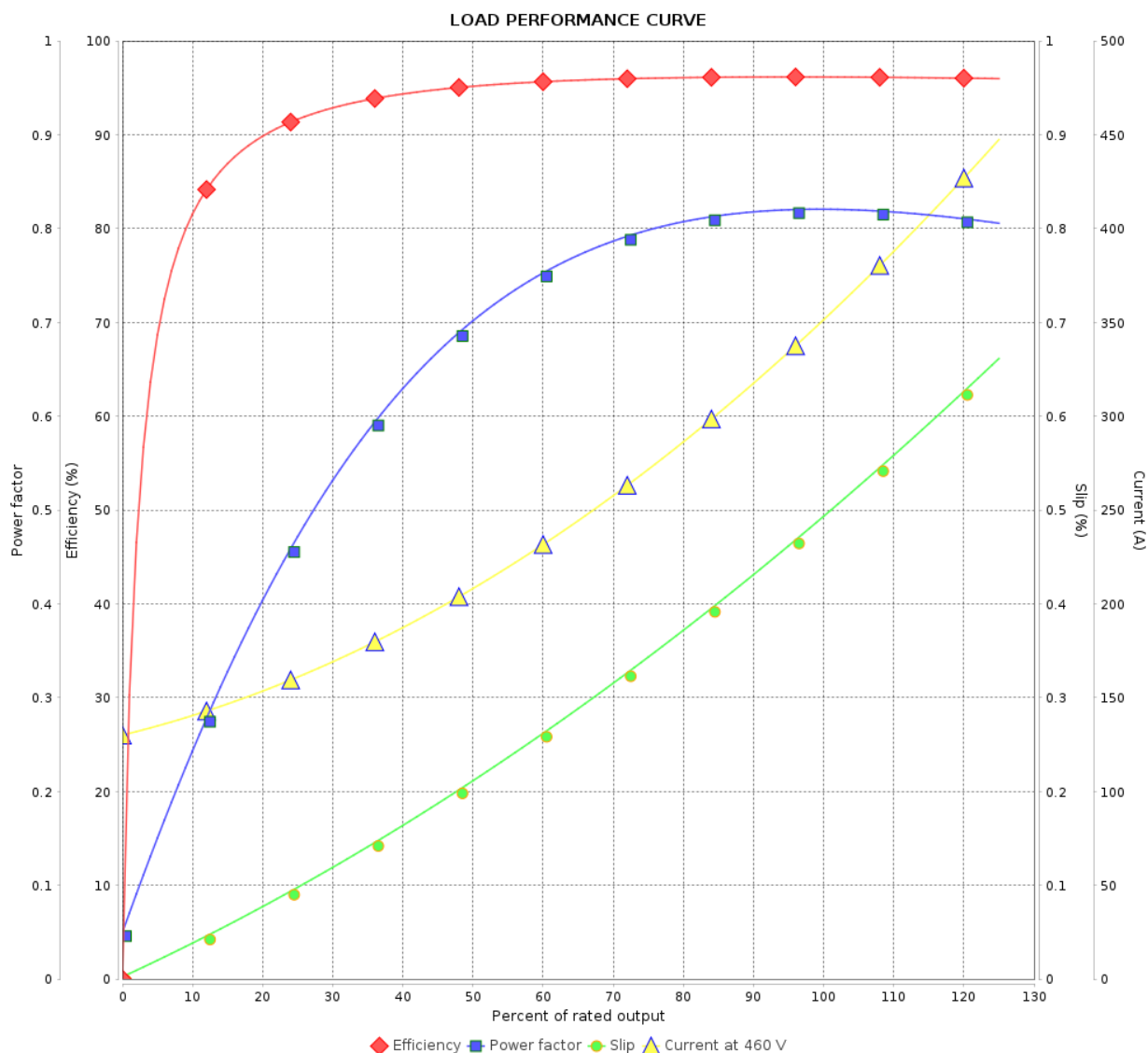
Three Phase Induction Motor - Squirrel Cage



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 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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