

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code :		17371831
Frame	:	586/7TZ		Locked rotor time	:	28s (cold) 16s (hot)
Output	:	500 HP (370 kW)		Temperature rise	:	80 K
Frequency	:	60 Hz		Duty cycle	:	Cont.(S1)
Rated voltage	:	575 V		Ambient temperature	:	-20°C to +40°C
Poles	:	4		Altitude	:	1000 m.a.s.l.
Rated current	:	454 A		Protection degree	:	IP55
	:	6.5x(Code G)		Cooling method	:	IC411 - TEFC
Rated speed	:	1790 rpm		Mounting	:	F-1
Rated torque	:	203 kgfm		Rotation ¹	:	Both (CW and CCW)
Insulation class	:	F		Noise level ²	:	81.0 dB(A)
Service factor	:	1.00		Starting method	:	Direct On Line
Moment of inertia (J)	:	10.8 kgm ²		Approx. weight ³	:	1874 kg
Design	:	A				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.8	96.2	96.2	Max. traction	:	2533 kgf
Power Factor	0.75	0.83	0.85	Max. compression	:	4406 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)
4.6	3.4	2.6	2.9	1.8	1.4	0.8
			<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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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

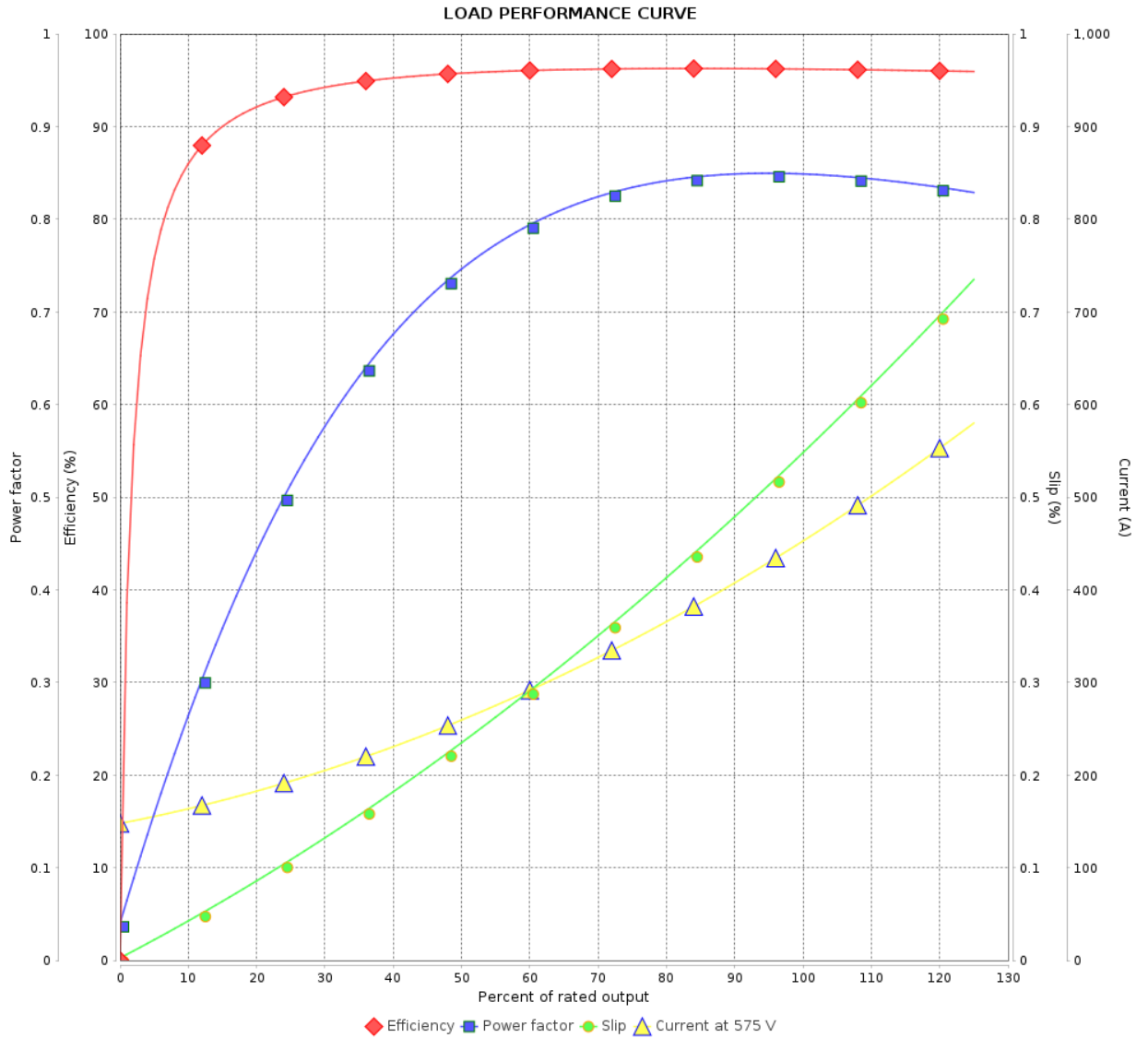
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Three-Phase

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