

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 15488075

Frame	: 449T	Locked rotor time	: 61s (cold) 34s (hot)
Output	: 150 HP (110 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 335/168 A	Protection degree	: IP55
L. R. Amperes	: 2144/1075 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 105/52.5 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1783 rpm	Noise level ²	: 80.0 dB(A)
Slip	: 0.94 %	Starting method	: VFD
Rated torque	: 61.1 kgfm	Approx. weight ³	: 1233 kg
Locked rotor torque	: 190 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.05 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.4	95.8	95.8	Max. traction	: 558 kgf
Power Factor	0.00	0.76	0.83	0.86	Max. compression	: 1791 kgf

	Drive end	Non drive end
Bearing type	: NU-322 C3	: 6319 C3
Sealing	: Viton Oil Seal	: Viton Seal
Lubrication interval	: 3330 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.

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Thermal protection

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

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LOAD PERFORMANCE CURVE

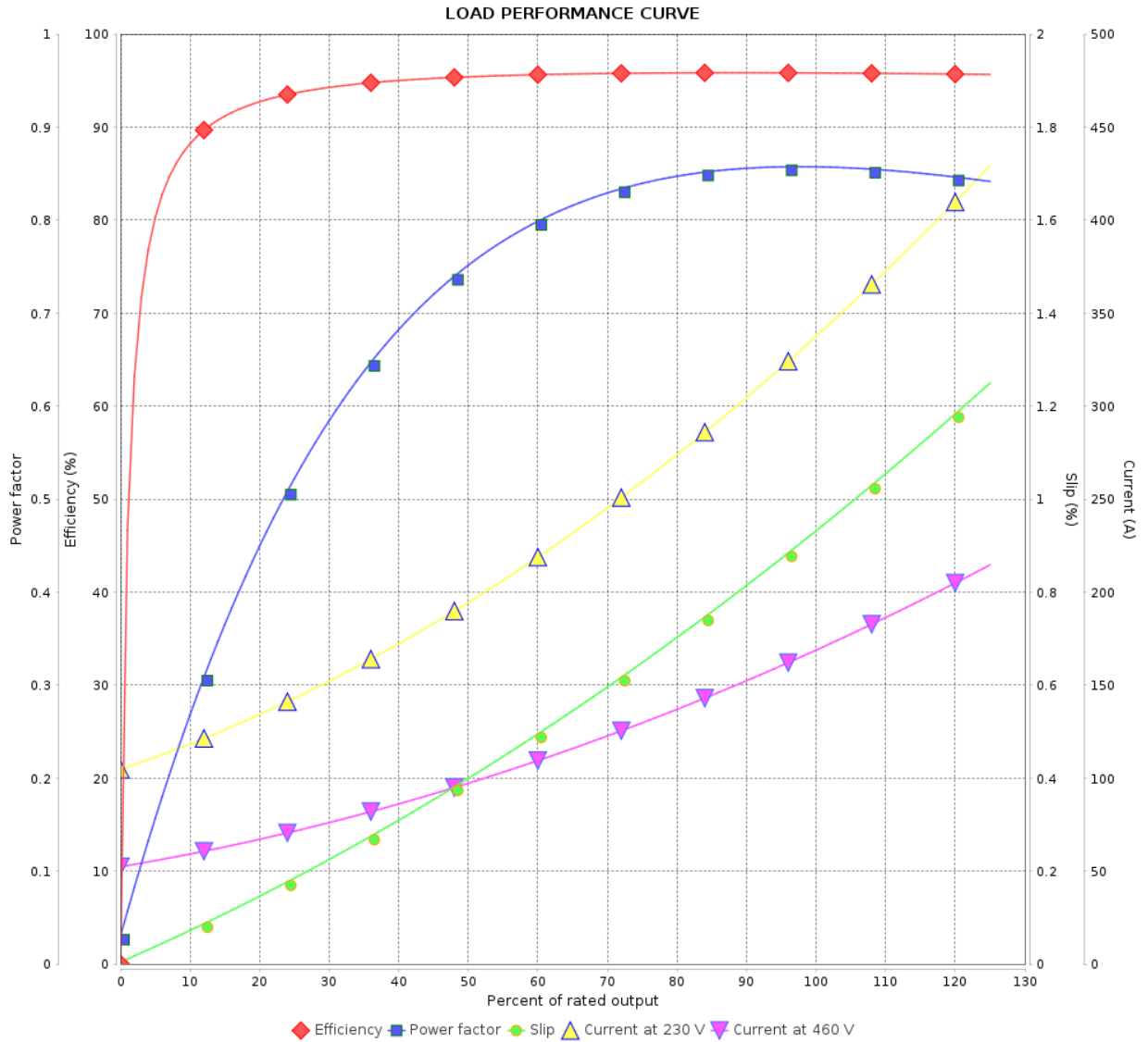
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 15488075



Performance : 230/460 V 60 Hz 4P

Rated current : 335/168 A
LRC : 6.4
Rated torque : 61.1 kgfm
Locked rotor torque : 190 %
Breakdown torque : 220 %
Rated speed : 1783 rpm

Moment of inertia (J) : 3.05 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
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