DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 EX d IIB T4 Three-Phase Product code: 12314405 Frame Locked rotor time : 48s (cold) 27s (hot) : 315S/M Output : 110 kW Temperature rise : 80 K Poles : 4 Duty cycle : S1 Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 380/660 V Altitude : 1000 m.a.s.l. : 202/116 A Protection degree Rated current : IP55 : 1434/826 A Cooling method : IC411 - TEFC L. R. Amperes **LRC** : 7.1 Mounting : B3T No load current : 54.0/31.1 A Rotation¹ : Both (CW and CCW) Rated speed : 1480 rpm Noise level² : 77.0 dB(A) Slip : 1.33 % Starting method : Direct On Line Rated torque : 72.4 kgfm Approx. weight3 : 1027 kg Locked rotor torque : 210 % Breakdown torque : 240 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 2.71 kgm² Design : N 100% Output 50% 75% Foundation loads Efficiency (%) 92.0 93.3 94.0 Max. traction : 813 kgf Power Factor 0.80 0.86 0.88 Max. compression : 1840 kgf Drive end Non drive end 6319 C3 6316 C3 Bearing type Taconite Labyrinth Taconite Labyrinth Sealing Lubrication interval 9029 h 10421 h Lubricant amount 45 g 34 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 IEC 60034-1.

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Customer	

Thermal protection

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ID	Application	Туре	Quantity	Sensing Temperature				
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C				

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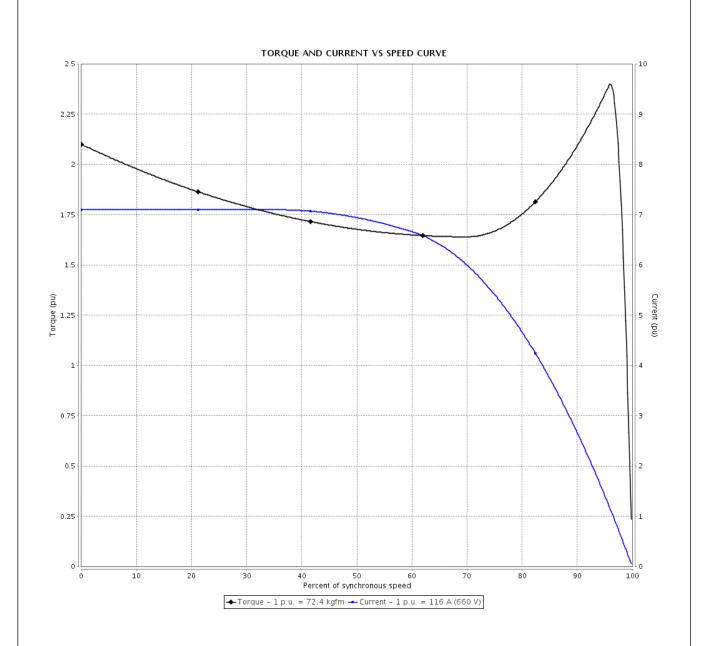
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 PUMP/FILTER Three-Phase Product code : 12314405



Performance	: 380/660 V 50 Hz 4P			
Rated current	: 202/116 A	Moment of inertia (J)	: 2.71 kgm²	
LRC	: 7.1	Duty cycle	: S1	
Rated torque	: 72.4 kgfm	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: N	

Locked rotor time : 48s (cold) 27s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



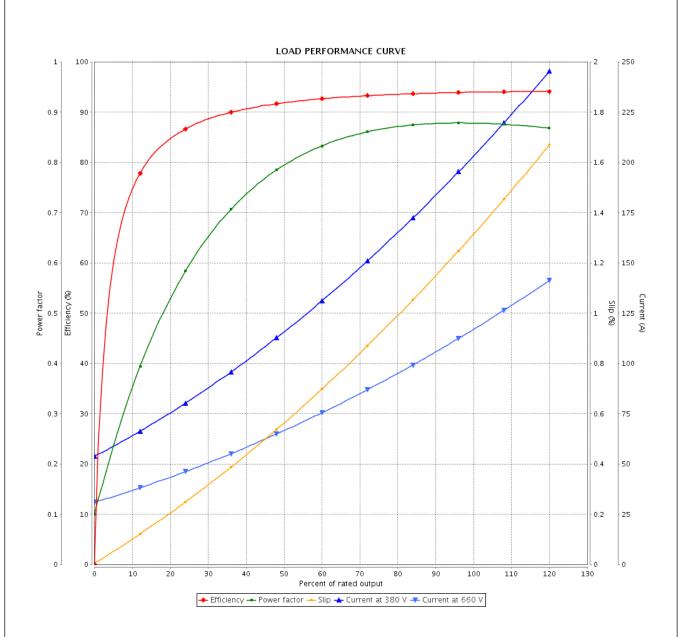
Customer :

Checked by

Date

21/11/2018

Product line : W21 PUMP/FILTER Three-Phase Product code : 12314405



Performance		: 380/660 V	′ 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 202/116 A : 7.1 : 72.4 kgfm : 210 % : 240 % : 1480 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.71 kgm² : S1 : F : 1.00 : 80 K : N	
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