

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :	
Product line	: NEMA Premium Efficiency Three-Phase
Product code :	12674854
Catalog # :	002120T3H184TC-S
Frame : 182/4TC Output : 2 HP (1.5 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 575 V Rated current : 2.36 A L. R. Amperes : 15.6 A LRC : 6.6x(Code J) No load current : 1.37 A Rated speed : 1165 rpm Slip : 2.92 % Rated torque : 9.02 ft.lb Locked rotor torque : 200 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.2800 sq.ft.lb Design : B	Locked rotor time : 59s (cold) 33s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 52.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 66.2 lb
Output	25% 50% 75% 100%
Efficiency (%)	84.4 85.5 86.5 87.5
Power Factor	0.30 0.53 0.66 0.73
Foundation loads	
Max. traction	: 139 lb
Max. compression	: 206 lb
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ
Sealing	: Without Bearing Seal Without Bearing Seal
Lubrication interval	: - -
Lubricant amount	: - -
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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



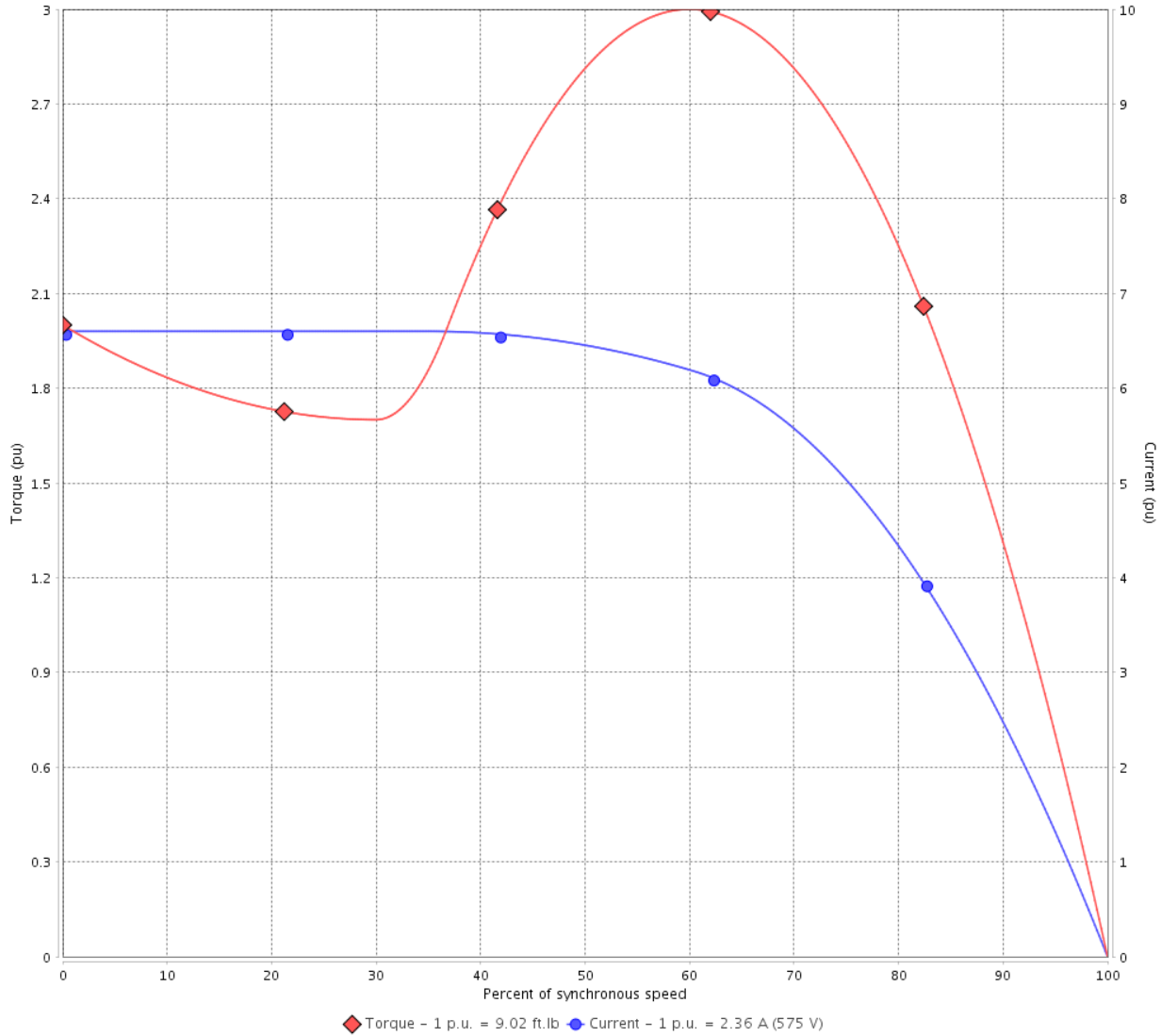
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Catalog # : 002120T3H184TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 6P

Rated current	: 2.36 A	Moment of inertia (J)	: 0.2800 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 9.02 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1165 rpm	Design	: B

Locked rotor time : 59s (cold) 33s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

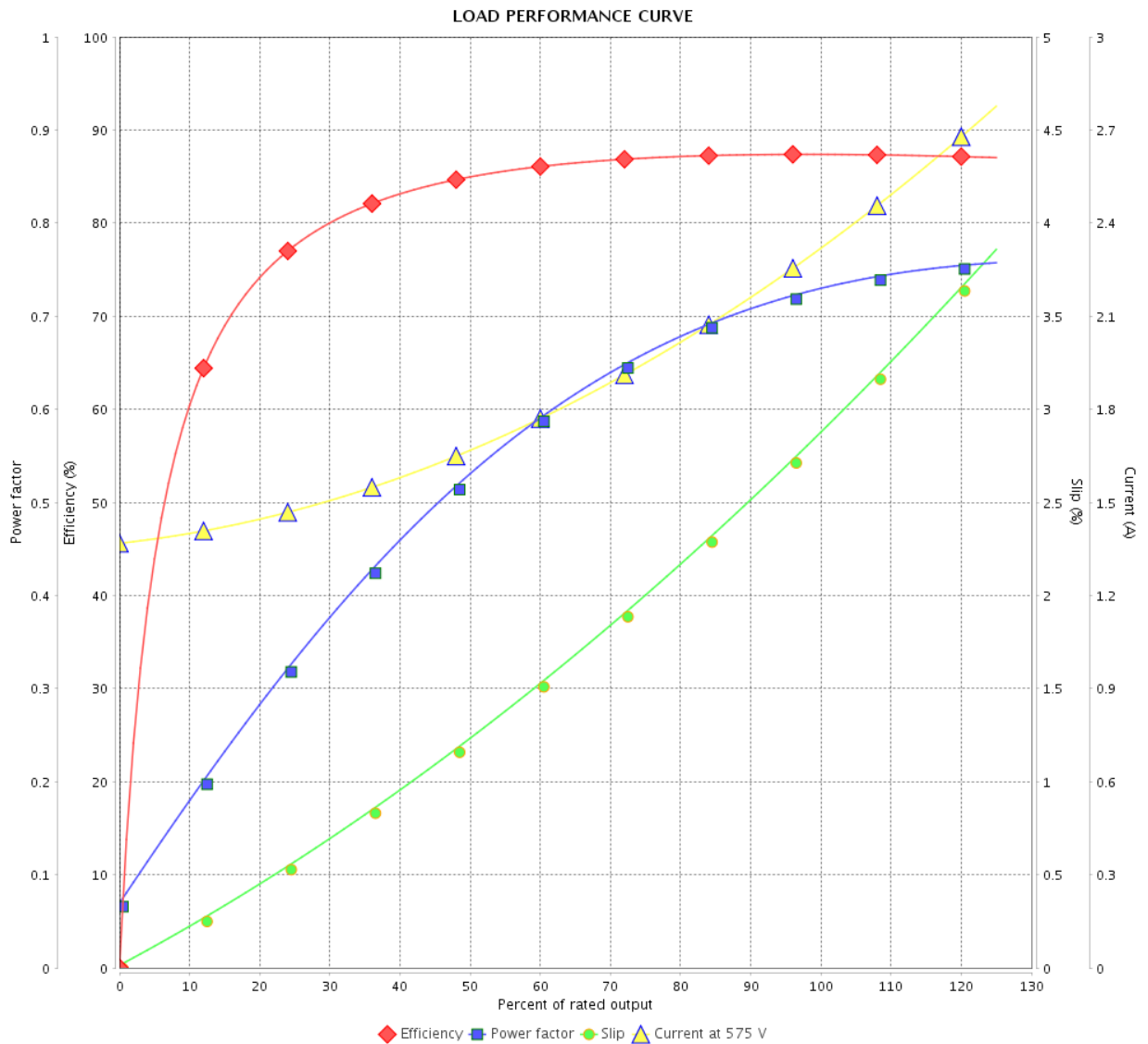


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Performance : 575 V 60 Hz 6P

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 Locked rotor torque : 200 %
 Breakdown torque : 300 %
 Rated speed : 1165 rpm

Moment of inertia (J) : 0.2800 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

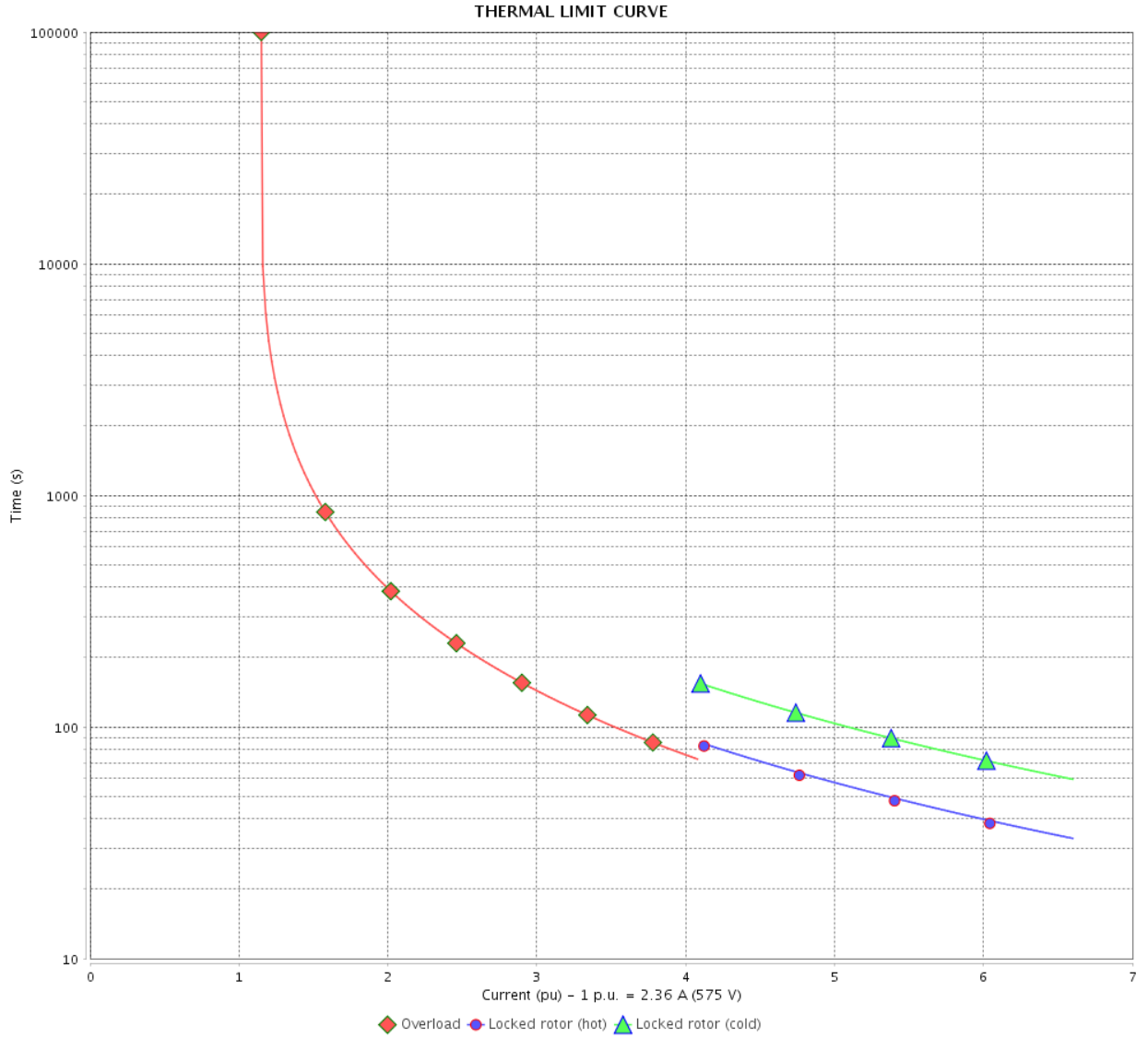
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

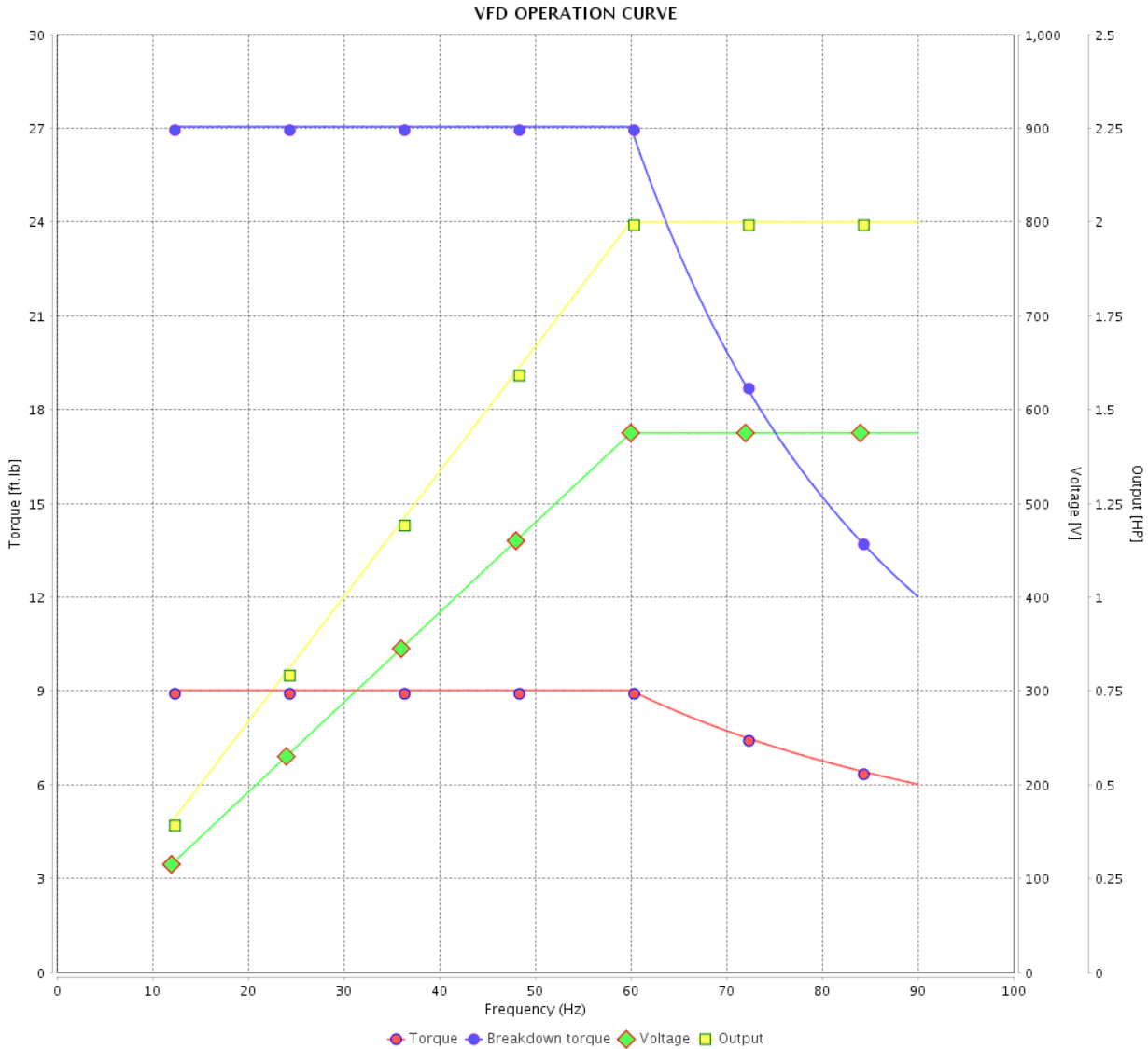


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 Insulation class : F
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