## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809663

Catalog #: 00136OT3E56C-S

Frame : 56C Cooling method : IC01 - ODP Insulation class : F Mounting : F-1
Duty cycle : Cont.(S1) Rotation¹ : Both (CW ar

Duty cycle		: Cont.(S1)	:.(S1) Rotation <sup>1</sup>	
Ambient temperature		: -20°C to +40°C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 20.5 lb
			Moment of inertia (J)	: 0.0517 sq.ft.lb
Output [HP]		1	1	1
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		3.02/1.51	3.50/1.75	3.26/1.73
L. R. Amperes [A]		19.3/9.66	17.2/8.58	17.0/9.00
LRC [A]		6.4x(Code J)	4.9x(Code G)	5.2x(Code G)
No load current [A]		1.60/0.800	1.50/0.750	2.06/1.09
Rated speed [RPM]		3470	2820	2850
Slip [%]		3.61	6.00	5.00
Rated torque [ft.lb]		1.51	1.86	1.84
Locked rotor torque [%]		229	160	190
Breakdown torque	[%]	260	190	220
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		41s (cold) 23s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	68.3	73.8	70.3
Efficiency (%)	50%	70.0	72.9	70.5
Efficiency (%)	75%	75.5	74.9	74.1
	100%	77.0	73.2	73.7
	25%	0.37	0.43	0.35
Power Factor	50%	0.60	0.69	0.62
I OWELL ACIOI	75%	0.73	0.82	0.77
	100%	0.81	0.89	0.85

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6204 ZZ 6202 ZZ Max. traction : 29 lb Sealing : Without Without Max. compression : 50 lb

Bearing Seal Bearing Seal

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 3.34A SF 1.00 SFA 3.34A

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

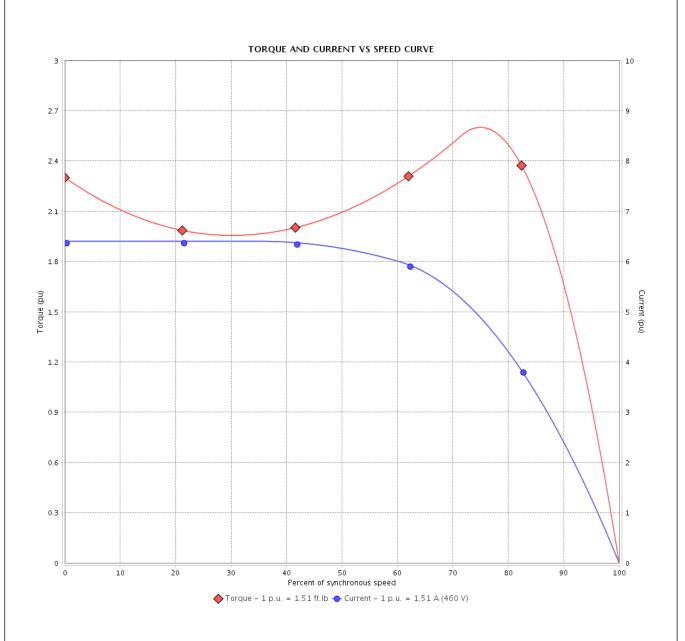
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809663

Catalog #: 00136OT3E56C-S



Performance : 230/460 V 60 Hz 2P

Rated current : 3.02/1.51 A | Moment of inertia (J) : 0.0517 sq.ft.lb LRC : 6.4 | Duty cycle : Cont.(S1)

Rated torque : 1.51 ft.lb Insulation class : F
Locked rotor torque : 229 % Service factor :
Breakdown torque : 260 % Temperature rise : 80 K

Rated speed : 3470 rpm

Locked rotor time : 41s (cold) 23s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE

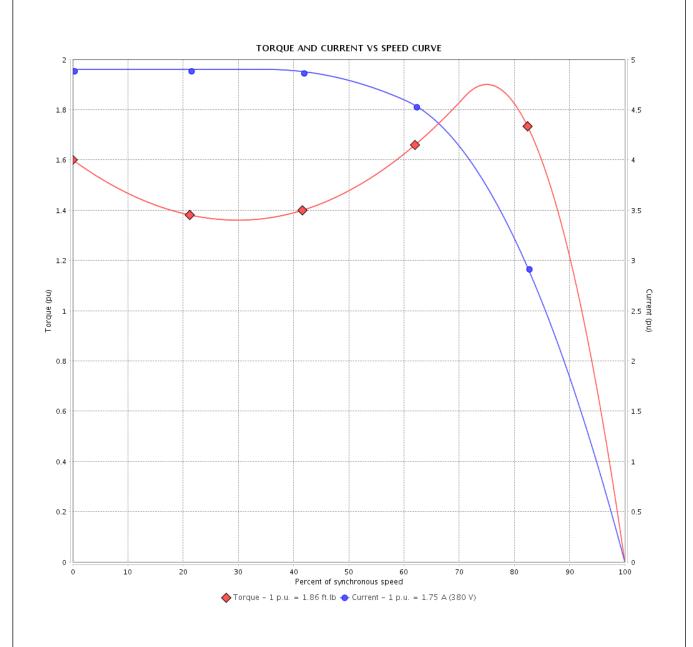
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809663

Catalog #: 00136OT3E56C-S



Performance : 190/380 V 50 Hz 2P Rated current : 3.50/1.75 A Moment of inertia (J) : 0.0517 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1.86 ft.lb Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 2820 rpm

Locked rotor time : 39s (cold) 22s (hot)

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## TORQUE AND CURRENT VS SPEED CURVE

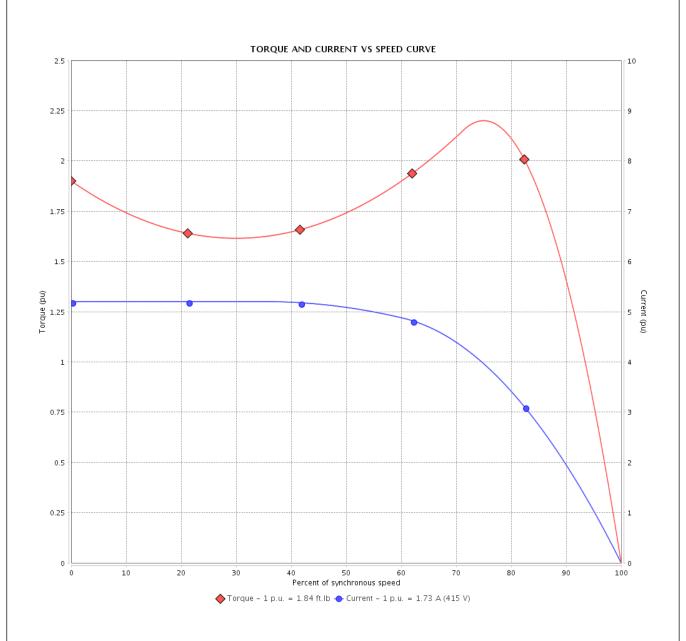
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809663

Catalog #: 00136OT3E56C-S



 Performance
 : 220/415 V 50 Hz 2P

 Rated current
 : 3.26/1.73 A
 Moment of inertia (J)
 : 0.0517 sq.ft.lb

 LRC
 : 5.2
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 1.84 ft.lb
 Insulation class
 : F

Rated torque : 1.84 ft.lb Insulation class : F
Locked rotor torque : 190 % Service factor : 1.15
Breakdown torque : 220 % Temperature rise : 80 K
Rated speed : 2850 rpm

Locked rotor time : 37s (cold) 21s (hot)

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# LOAD PERFORMANCE CURVE

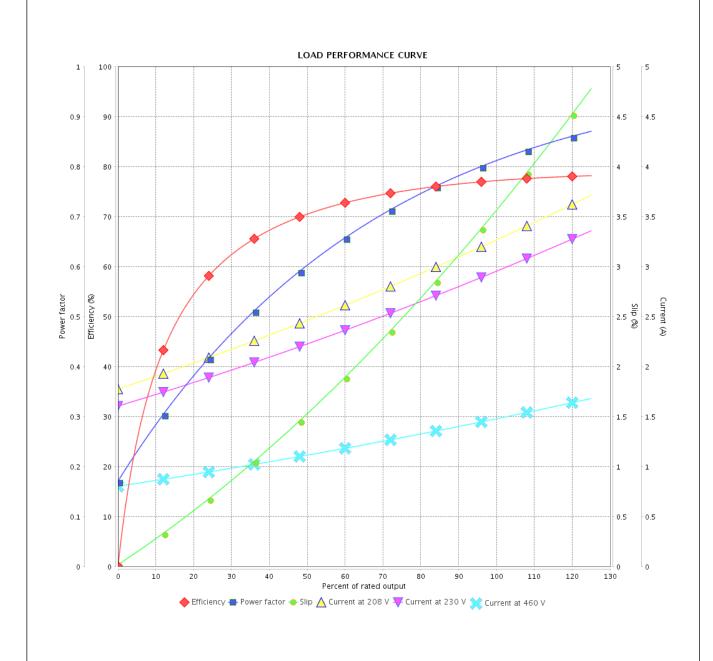
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Rated torque			class	: F		
Locked rotor torque Breakdown torque		: 229 %	Service fa	ctor	:	
		: 260 %	260 % Temperature		: 80 K	
Rated speed		: 3470 rpm				
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### Three Phase Induction Motor - Squirrel Cage



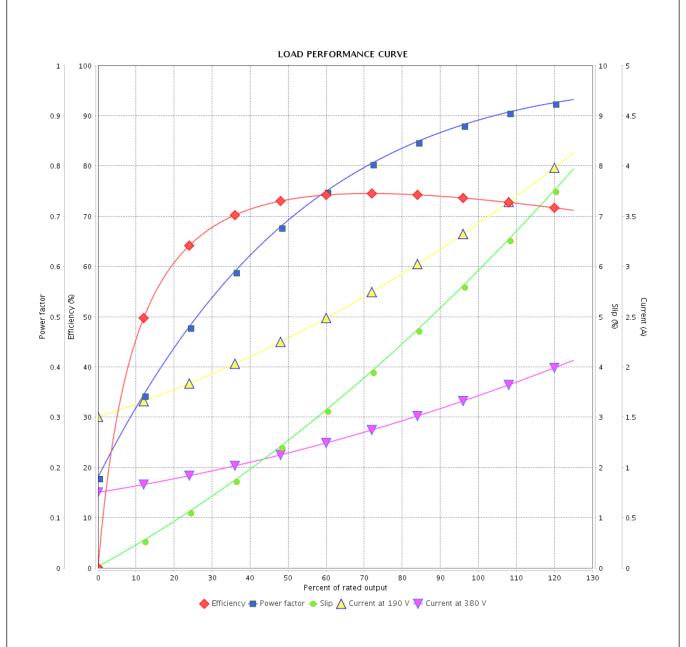
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Product line : Premium Efficiency Three-Phase Product code : 12809663

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 : 190/380 V 50 Hz 2P

 Rated current
 : 3.50/1.75 A
 Moment of inertia (J)
 : 0.0517 sq.ft.lb

 LRC
 : 4.9
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 1.86 ft.lb
 Insulation class
 : F

Locked rotor torque : 160 % Service factor : 1.15

Breakdown torque : 190 % Temperature rise : 80 K

Rated speed : 2820 rpm

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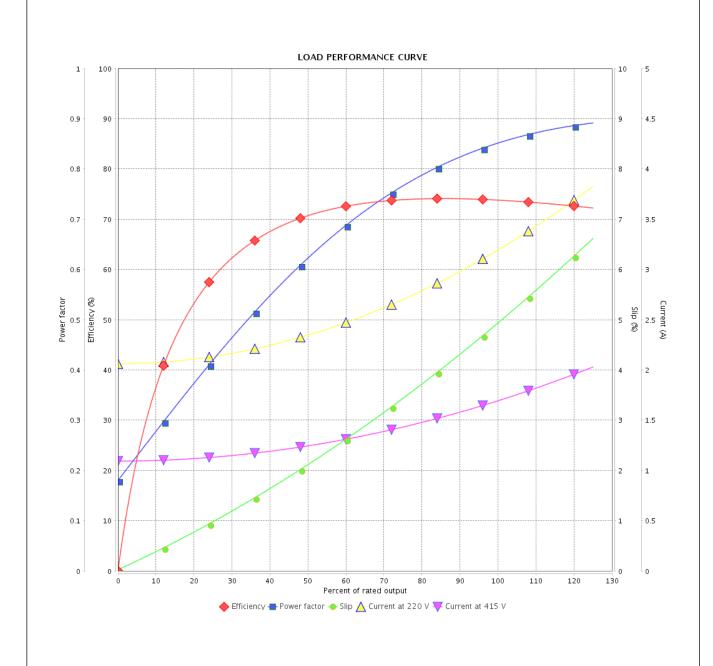


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Performance	: 220/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.26/1.73 A : 5.2 : 1.84 ft.lb : 190 % : 220 % : 2850 rpm	Moment of inertia (J) : 0.0517 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.15  Temperature rise : 80 K		)	
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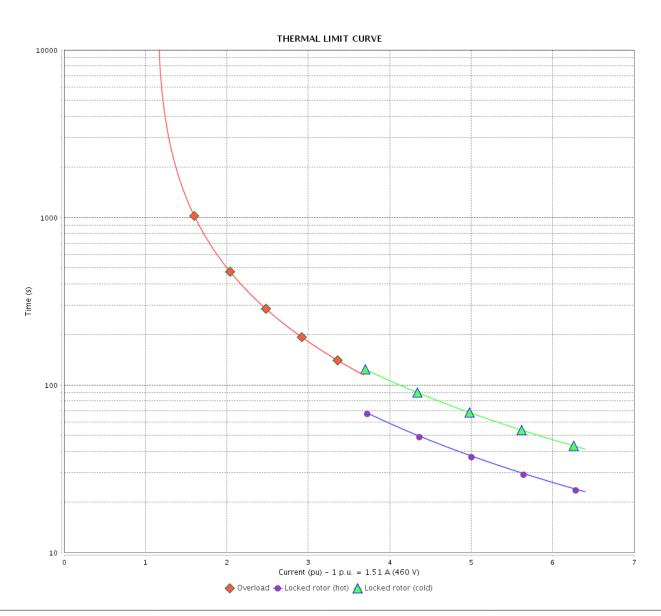
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Heating constant

Cooling constan	L					
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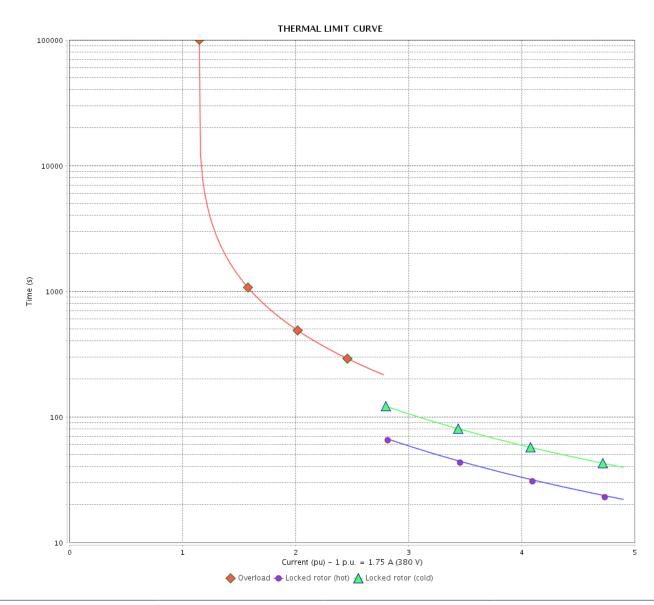
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Cooling constant	l .					
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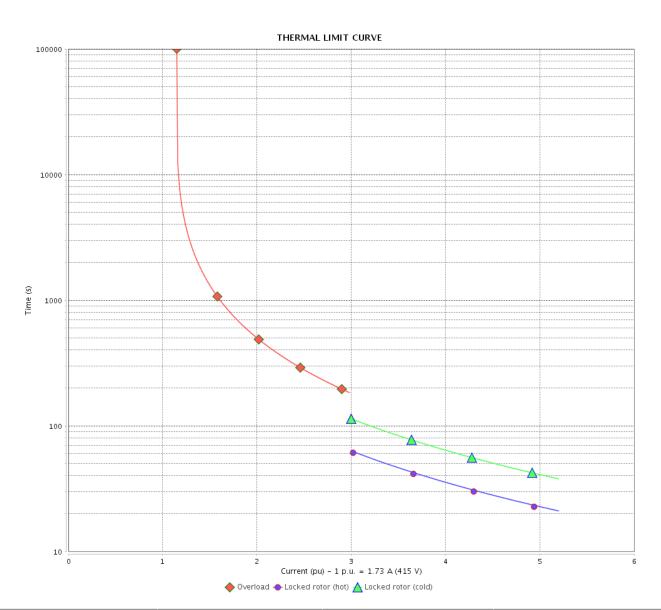
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Cooling constant

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# VFD OPERATION CURVE

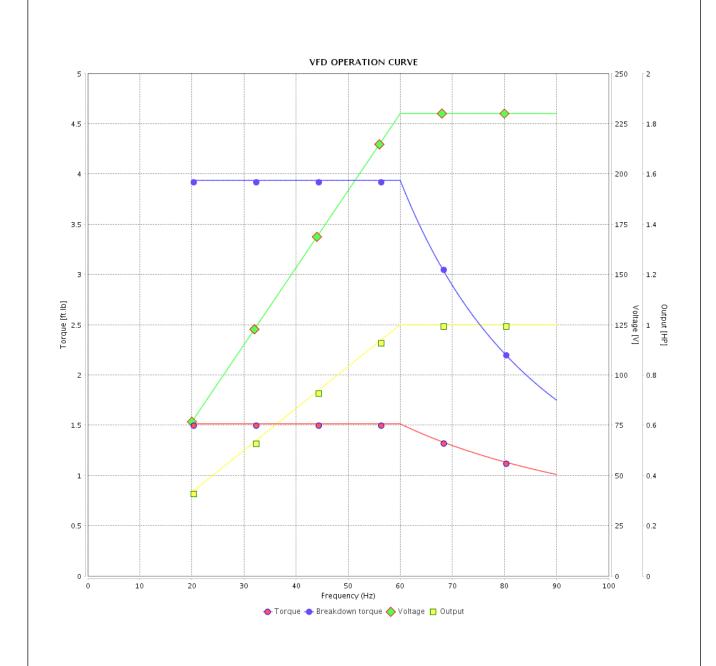
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