DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:			
Product line		: Rolled S	teel Three-Phase	Product code : Catalog # :	13484287 00118ET3E56CFL-S
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tord Breakdown torqu Insulation class Service factor Moment of inertia	ie	: 56C : 1 HP (0. : 4 : 60 Hz : 208-230 : 3.25-2.9 : 28.0-25. : 8.6x(Coo : 1.53-1.7 : 1765 rpr : 1.94 % : 2.94 ft.lb : 280 % : 5 : 5 : 1.15 : 1.15 : 0.1232 s : B	/460 V 4/1.47 A 3/12.6 A de M) 8/0.890 A	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 34s (cold) 19s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 52.0 dB(A) : Direct On Line : 36.3 lb
Output	50%	75%	100%	Foundation loads	
Efficiency (%) Power Factor	82.5 0.52	84.0 0.66	85.5 0.75	Max. traction Max. compression	: 98 lb : 134 lb
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		: : : : : : : : : : : : : : : : : : : :	Drive end 6204 ZZ V'Ring - - -	Non drive end 6202 ZZ V'Ring - - - obil Polyrex EM	<u>I</u>
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

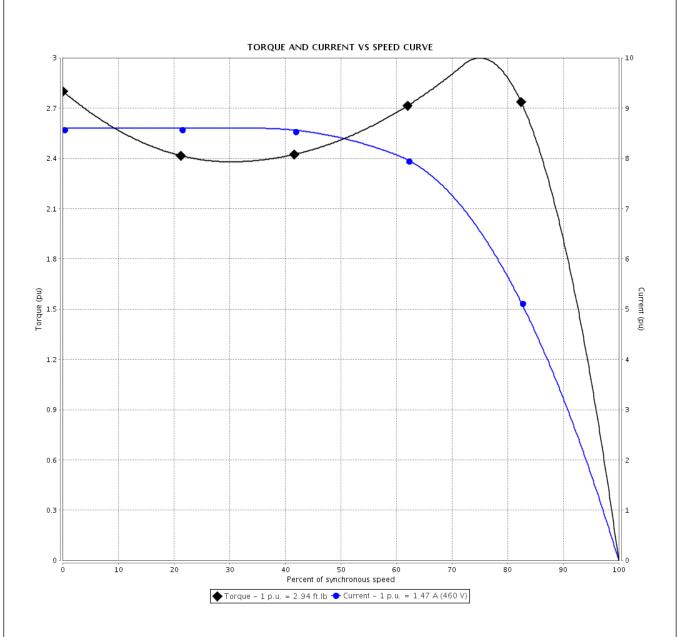
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Three-Phase Product code : 13484287

Catalog #: 00118ET3E56CFL-S



Performance	: 208-230/460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.25-2.94/1.47 A : 8.6 : 2.94 ft.lb : 280 % : 300 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1232 sq.ft.lb : Cont.(S1) : F : : 80 K : B

Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

18/06/2019

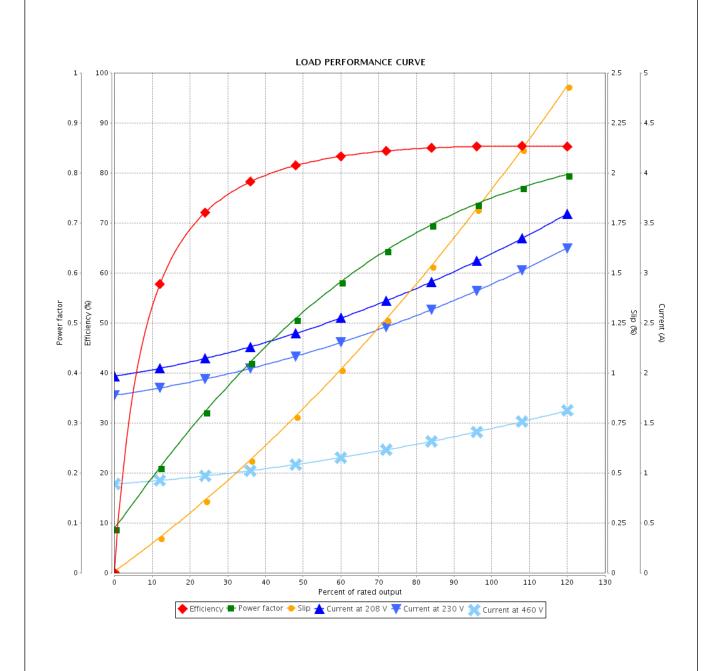
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Revision



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THERMAL LIMIT CURVE

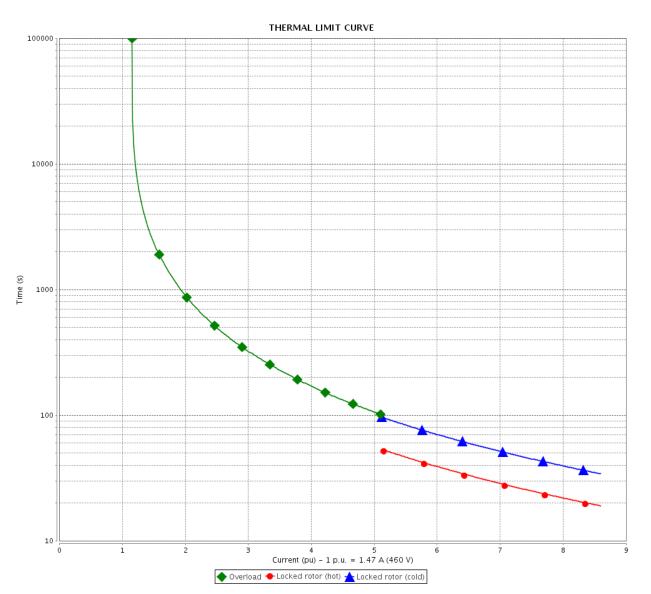
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Heating constant					
Cooling constant					
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

18/06/2019

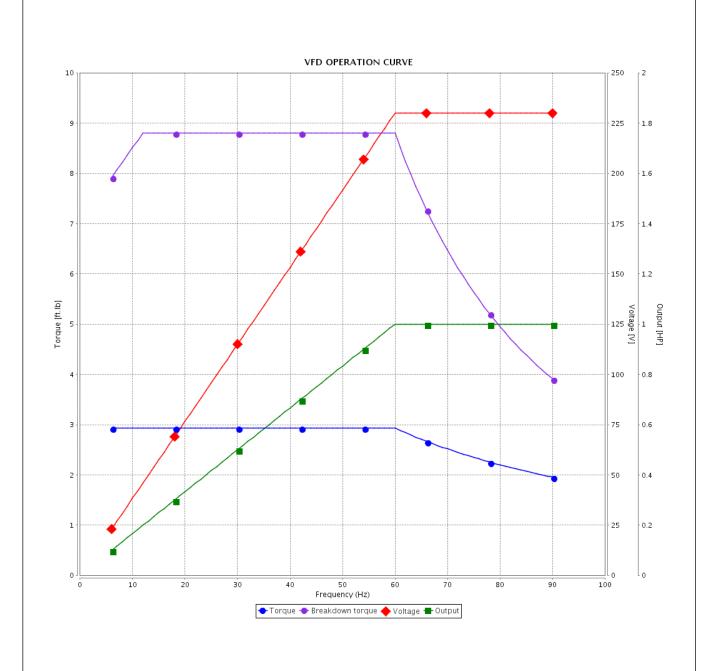
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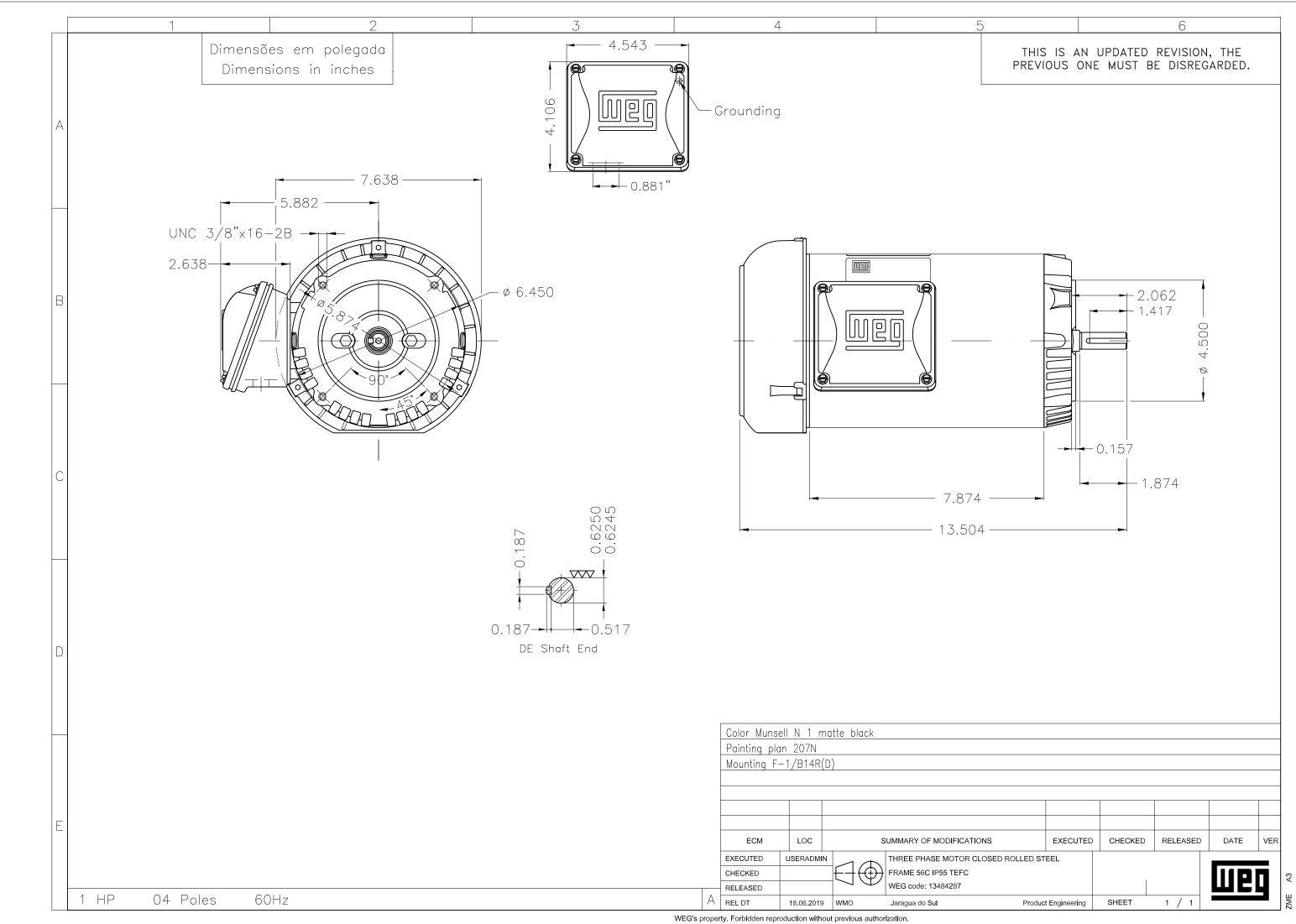
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Revision



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(YL) US LISTED

For 60Hz: Class I, Zone 2,

Energy Verified

Class I, Dlv.2, Gr. A.B.C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

9

ř

1.0(0.75)

HP(kW)

56C

PH 3

MODEL 00118ET3E56CFL-S

27MAI2019 ä 230/460

W01.TE0IC0X0X

MAT: 13484287

IEC 60034-1

EFF 82.9%

F2-WHT T6-GRY T8-RED

T4-YEL

r3-org

r9-RED

électrique grave. Déconnectez l'allmentation avant l'entretien de la machine

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT WARNING: Motor must be grounded in accordance with local and national

6202-ZZ

ODE

5204-ZZ

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

electrical codes to prevent serious electrical shocks. Disconnect power

AVERTISSEMENT: Le moteur doit être mis à la terre conformément

source before servicing unit.

sux codes électriques locaux et nationaux afin d'éviter tout choc

MOBIL POLYREX EM

SF1.00

190-220/380-415V (E3) 1-81 F5-BLK 17-PNK

SF1.00

3.25A

USABLE @ 208V 1450RPM 50Hz

1.0HP

3.40-3.06/1.70-1.62A

2

ALTERNATE RATING: m.a.s.l.

1000

0.75 SF 1.15

NEMA NOM, EFF. 85.5%

80K AMB

INS CL F AT

SFA 3.38/1.69

2.94/1.47

ENC DES

255

B

CONT 1765 CODE

Z D D RPM