DATA SHEET

Three Phase Induction Motor - Squirrel Cage

: 1.15



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14796994

Catalog #: .5018ES3E56C-S

Frame : 56C Locked rotor time : 36s (cold) 20s (hot)
Output : 0.5 HP (0.37 kW) Temperature rise : 80 K

Output : 0.5 HP (0.37 kW) Temperature rise : 80 K
Poles : 4 Duty cycle : Cont.(S1)
Frequency : 60 Hz Ambient temperature : -20°C to +40°C

 Rated voltage
 : 208-230/460 V
 Altitude
 : 1000 m.a.s.l.

 Rated current
 : 1.91-1.72/0.862 A
 Protection degree
 : IP55

Rated current : 1.91-1.72/0.862 A Protection degree : IP55
L. R. Amperes : 13.3-12.1/6.03 A Cooling method : IC411 - TEFC

LRC : 7.0x(Code L) Mounting : F-1

No load current : 1.03-1.20/0.600 A Rotation¹ : Both (CW and CCW)
Rated speed : 1760 rpm Noise level² : 52.0 dB(A)

Slip : 2.22 % Starting method : Direct On Line Rated torque : 1.49 ft.lb Approx. weight³ : 21.8 lb Locked rotor torque : 240 %

Breakdown torque : 300 %
Insulation class : F

Moment of inertia (J) : 0.0584 sq.ft.lb

Output 25% 50% 75% 100% Foundation loads

Efficiency (%) 65.4 68.0 74.0 77.0 Max. traction : 43 lb Power Factor 0.28 0.48 0.61 0.70 Max. compression : 65 lb

Drive endNon drive endBearing type: 6203 ZZ6202 ZZSealing: V'RingWithout Bearing Seal

Lubrication interval : - - Lubricant amount : - - -

Lubricant amount : - - Mobil Polyrex EM

Notes

Service factor

USABLE @208V SF 1.00

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

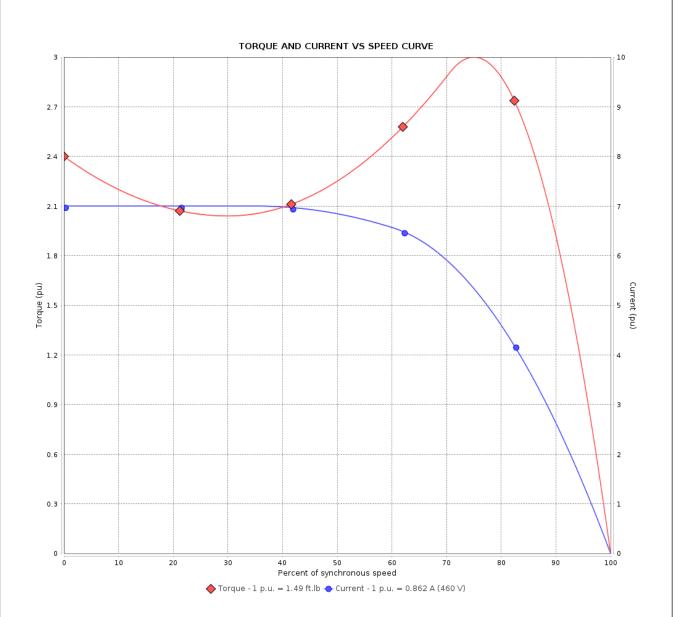
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Performance	: 208-230/460 V 60 Hz 4P		
Rated current LRC	: 1.91-1.72/0.862 A : 7.0	Moment of inertia (J) Duty cycle	: 0.0584 sq.ft.lb : Cont.(S1)
Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.49 ft.lb : 240 % : 300 % : 1760 rpm	Insulation class Service factor Temperature rise	: F : : 80 K

Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

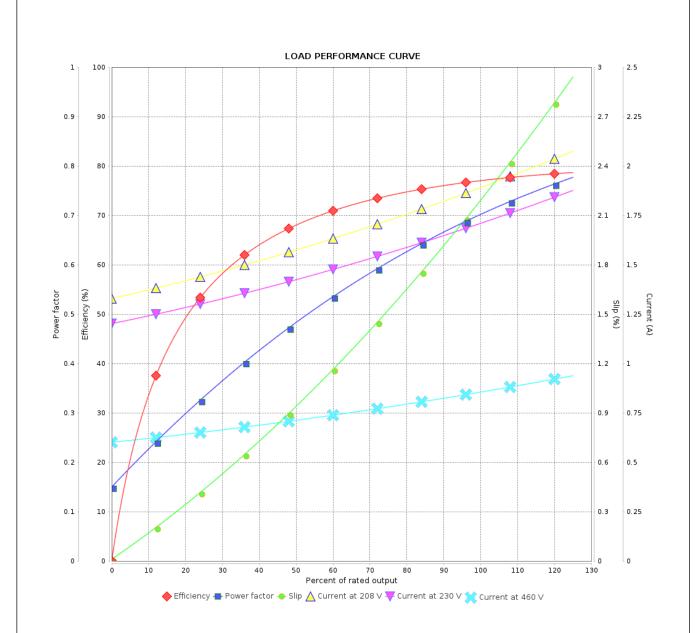
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Performance	: 208-230/460 V 60 Hz 4P				
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22/08/2022

Date

THERMAL LIMIT CURVE

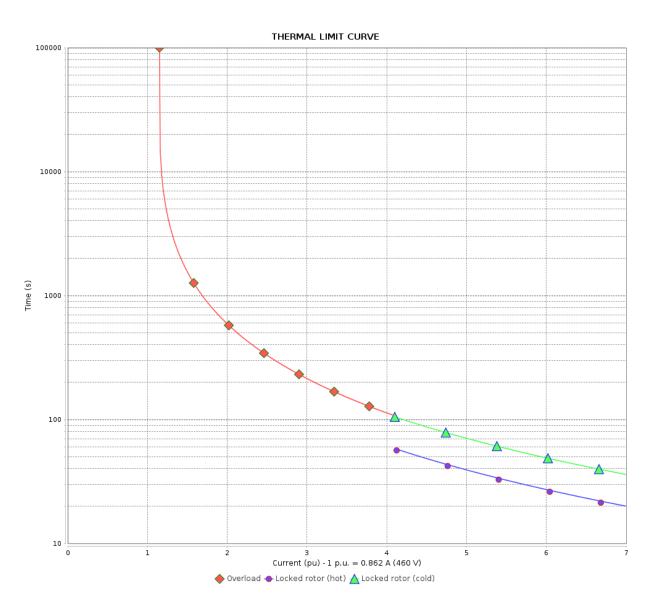
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Performance	: 208-230/460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.91-1.72/0.862 A : 7.0 : 1.49 ft.lb : 240 % : 300 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.0584 sq.ft.lb : Cont.(S1) : F : : 80 K	
Heating constant				
Cooling constant				

Cooling constant	•				
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VFD OPERATION CURVE

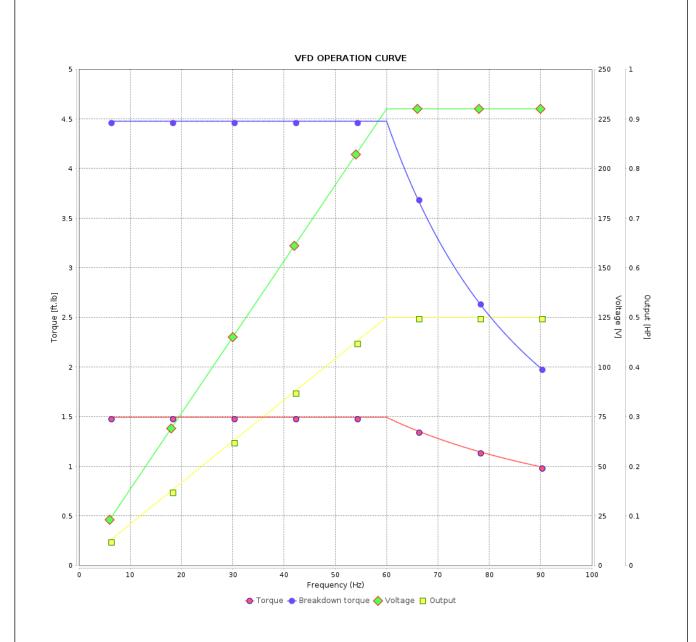
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 Performance
 : 208-230/460 V 60 Hz 4P

 Rated current
 : 1.91-1.72/0.862 A
 Moment of inertia (J)
 : 0.0584 sq.ft.lb

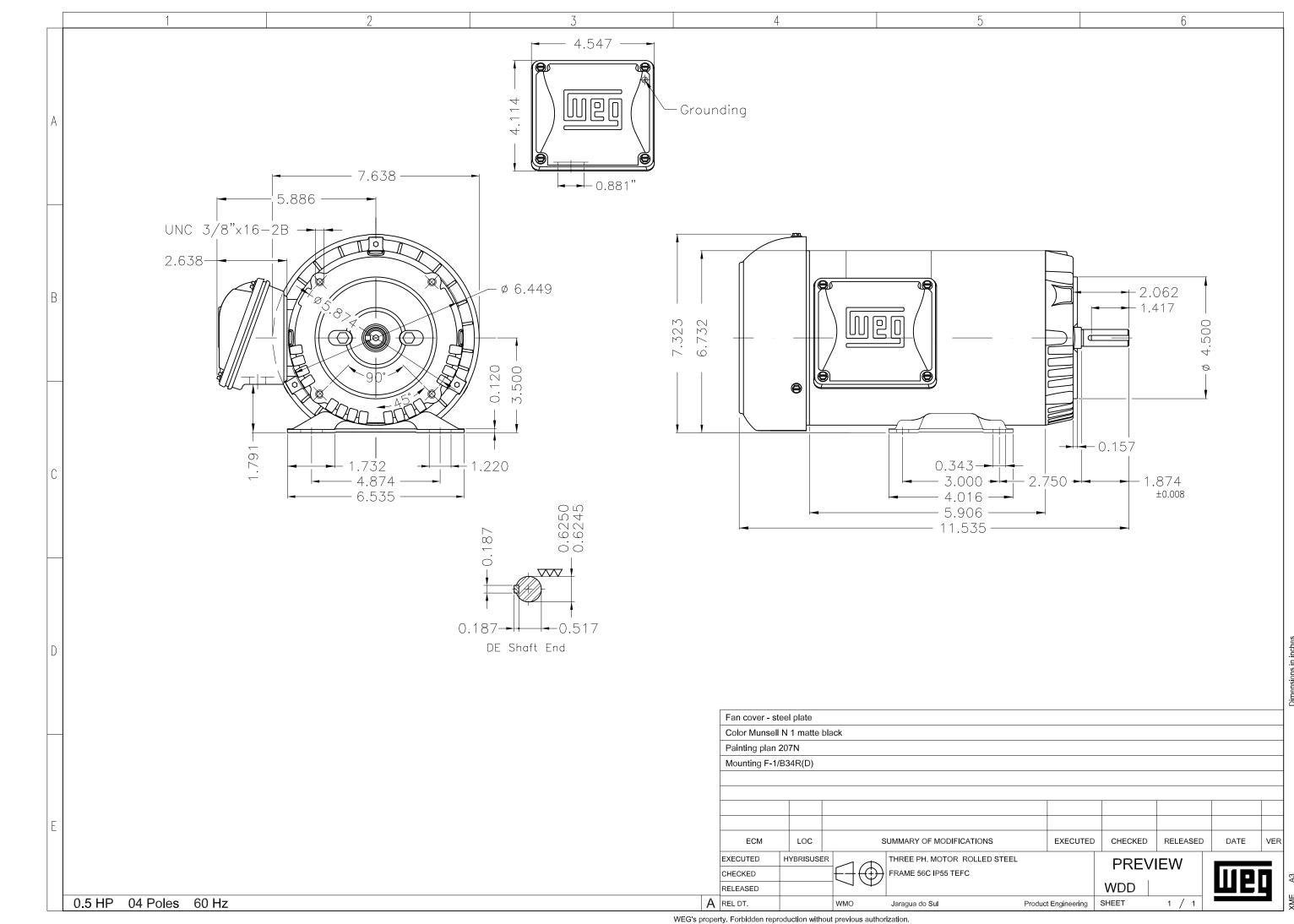
 LRC
 : 7.0
 Duty cycle
 : Cont.(S1)

Rated torque : 1.49 ft.lb Insulation class : F
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UL)US LISTED

SAFE AREA

3PT9

MADE IN BRAZIL

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

NO1.TEOICOXOX 14796994

MODEL .5018ES3E56C-S 8 B 5AUG2022

8 4 CONT

56C

1000 m.a.s.l

1.91-1.72/0.862 1.91-1.98/0.991 208-230/460

1.15 3FA 냃

P55

F AT 80K

NSC INC. W

ZPM 쌆

CODE SH

TEFC 20°C

SF1.00

SABLE @ 208V

77.0% NEMA

NOM EFF 1445RPM 50 Hz

1.90-1.81/0.950-0.962A

ALTERNATE RATING:

IEC 60034-1

(IE2)

SF1.15

190-220/380-415V

EFF 75.4%

8202-ZZ 0.50HP

ODE

8203-ZZ

牌

9

2

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT. 10:1 CT MOBIL POLYREX EM

T2-WHT

r4-YEL

13-ORG 1-810

I7-PNK

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine.

conformément aux codes électriques locaux et nationaux afin d'éviter tout

