DATA SHEET

Three Phase Induction Motor - Squirrel Cage

: 1.15



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14786477

Catalog #: .7518ES3E56CFL-S

Frame : 56C Locked rotor time : 30s (cold) 17s (hot)

 Output
 : 0.75 HP (0.550 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 : 2.70-2.44/1.22 A Protection degree : IP55

L. R. Amperes : 18.6-16.8/8.42 A Cooling method : IC411 - TEFC LRC : 6.9x(Code K) Mounting : F-1

No load current : 1.55-1.80/0.900 A Rotation¹ : Both (CW and CCW)

Rated speed : 1755 rpm Noise level² : 52.0 dB(A)
Slip : 2.50 % Starting method : Direct On Line

Rated torque : 2.24 ft.lb Approx. weight³ : 22.7 lb

Locked rotor torque : 240 %

Breakdown torque : 300 %
Insulation class : F

Moment of inertia (J) : 0.0648 sq.ft.lb

25% 75% 100% Output 50% Foundation loads Efficiency (%) 70.4 72.0 77.0 78.5 Max. traction : 66 lb : 88 lb Power Factor 0.26 0.48 0.61 0.72 Max. compression

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

Lubrication interval : - - - Lubricant amount : - - -

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/08/2022			1/5	

TORQUE AND CURRENT VS SPEED CURVE

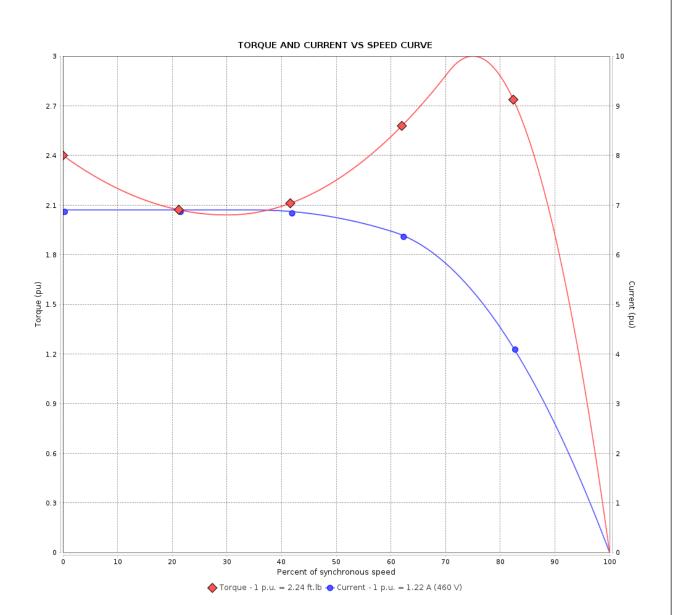
Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14786477

Catalog #: .7518ES3E56CFL-S



Performance : 208-230/460 V 60 Hz 4P Rated current : 2.70-2.44/1.22 A Moment of inertia (J) : 0.0648 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 2.24 ft.lb : 240 % Service factor Locked rotor torque : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 1755 rpm

Locked rotor time : 30s (cold) 17s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/08/2022			2/5	

LOAD PERFORMANCE CURVE

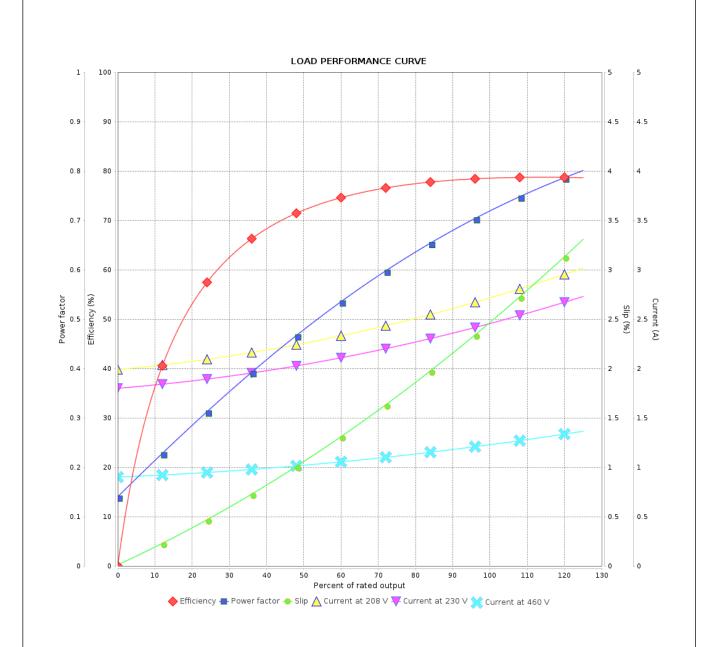
Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14786477

Catalog #: .7518ES3E56CFL-S



Performance		: 208-230/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: :: :::::::::::::::::::::::::::::::::	2.70-2.44/1.22 A 6.9 2.24 ft.lb 240 % 300 % 1755 rpm	Moment of Duty cycle Insulation Service fa	class ctor	: 0.0648 sq.ft : Cont.(S1) : F : : 80 K	.lb	
Rev. Changes Summary		у	Performed	Checked	Date		

Performed by				
Checked by			Page	Revision
Date	22/08/2022		3/5	
This do	cumont is evalueive	property of WEG S/A. Reprinting is not allowed without wi	ritton authorization of M/E	C S/A

THERMAL LIMIT CURVE

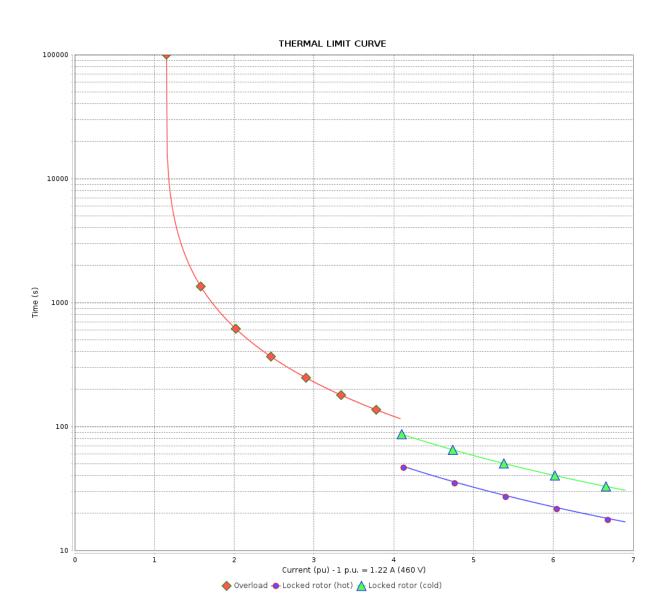
Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14786477

Catalog #: .7518ES3E56CFL-S



Performance	: 208-230/460 V 60 Hz 4P)		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.70-2.44/1.22 A : 6.9 : 2.24 ft.lb : 240 % : 300 % : 1755 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.0648 sq.ft.lb : Cont.(S1) : F : : 80 K	
Heating constant Cooling constant				

Cooling constant	4				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/08/2022			4/5	

VFD OPERATION CURVE

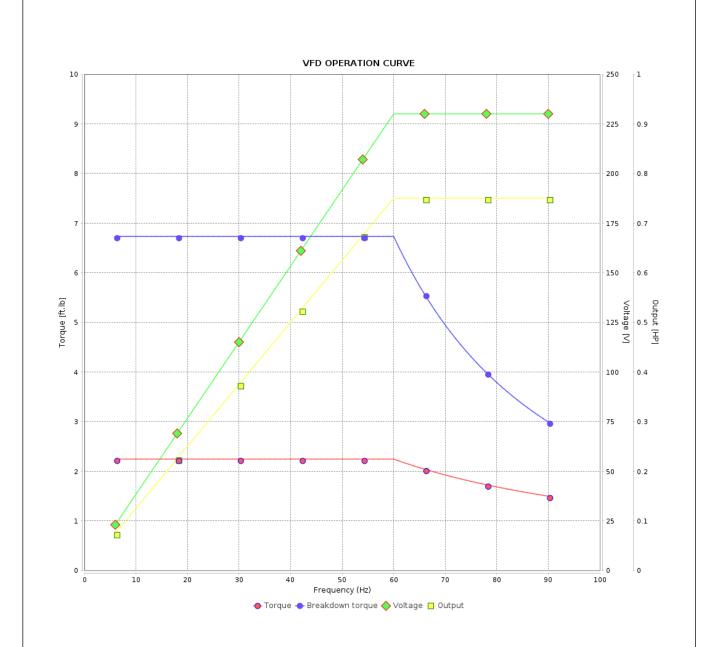
Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

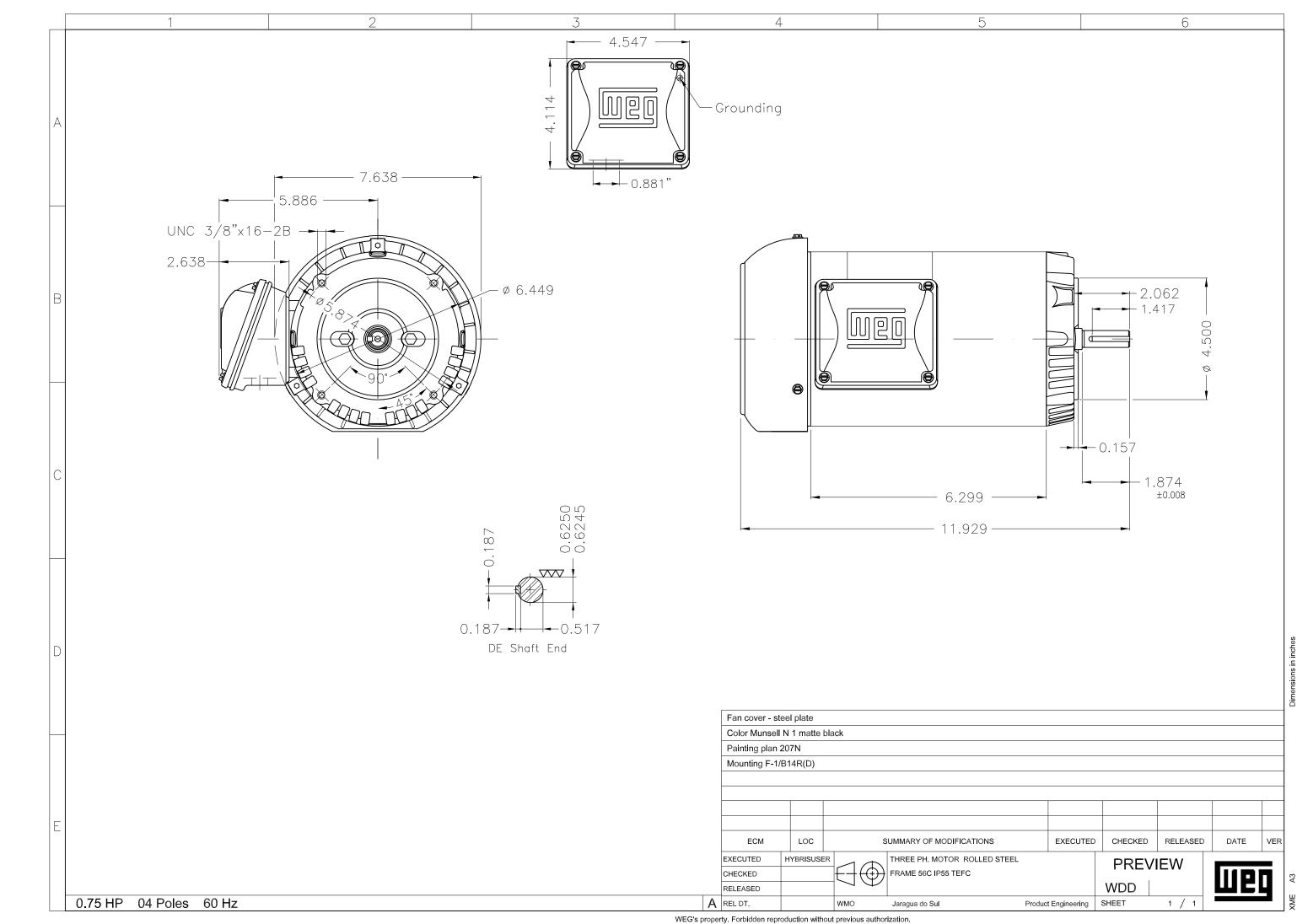
Product line : Standard Efficiency Three-Phase Product code : 14786477

Catalog #: .7518ES3E56CFL-S



Performance	: 208-230/460 V 60 Hz 4	Р		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.70-2.44/1.22 A : 6.9 : 2.24 ft.lb : 240 % : 300 % : 1755 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.0648 sq.ft.lb : Cont.(S1) : F : : 80 K	

		•				
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	22/08/2022				5/5	





UL)US LISTED

SAFE AREA

3PT9

14786477 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

> MODEL .7518ES3E56CFL-S 8 ä 4 5AUG2022 56C

NO1.TEOICOXOX

CONT

P55 1000 m.a.s.l

F AT 80K

NSC INC. W

2.70-2.81/1.40 208-230/460

> 3FA 냃

1.15 0.72

CODE DES SF1.00

ZPM 쌆 50 Hz 0.75HP

78.5%

NOM EFF NEMA 1440RPM

2.74-2.80/1.37-1.38A

ALTERNATE RATING:

SABLE @ 208V

TEFC 20°C

190-220/380-415V

8202-ZZ

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 **EFF 78.1%**

IEC 60034-1

E 1

SF1.15

T2-WHT

r4-YEL

13-ORG 1-810 I7-PNK T5-BLK

T8-RED

F6-GRY

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

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

T9-RRK RFD

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

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION