DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:								
Product line		: Star	ndard Effic	iency Three-	-Phase	Product code Catalog # :	e :	14797028 .5018ES3H56C-S	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class		: 4 : 60 F : 575 : 0.69 : 4.83 : 7.0x : 0.48 : 176 : 2.22 : 1.49 : 240 : 300 : F	: 0.5 HP (0.37 kW) : 4 : 60 Hz : 575 V : 0.690 A : 4.83 A : 7.0x(Code L) : 0.480 A : 1760 rpm : 2.22 % : 1.49 ft.lb : 240 % : 300 %		Temp Duty Ambi Altitu Prote Cooli Mour Rotat Noise Starti	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³		: 36s (cold) 20s (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 : 22.1 lb	
Service factor Moment of inertia	a (J)		84 sq.ft.lb						
Output Efficiency (%) Power Factor	25% 65.4 0.28	50% 68.0 0.48	75% 74.0 0.61	100% 77.0 0.70	Max. tr	ation loads action ompression		: 32 lb : 55 lb	
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		: : : :	62	e end 103 ZZ "Ring - - M	lobil Polyre	Non drive 6202 Without Bea - - ex EM	ZZ	I	

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

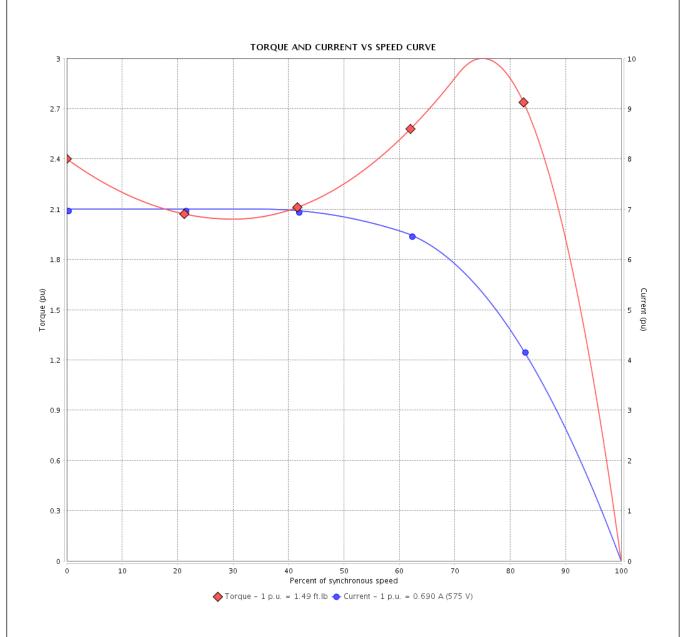
Three Phase Induction Motor - Squirrel Cage



Customer	
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Product line : Standard Efficiency Three-Phase Product code : 14797028

Catalog #: .5018ES3H56C-S



Performance : 575 V 60 Hz 4P Rated current : 0.690 A Moment of inertia (J) : 0.0584 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : F : 1.49 ft.lb Insulation class Rated torque : 240 % Service factor Locked rotor torque : 1.15 Breakdown torque : 300 % Temperature rise : 80 K

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

: 1760 rpm

Rated speed

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LOAD PERFORMANCE CURVE

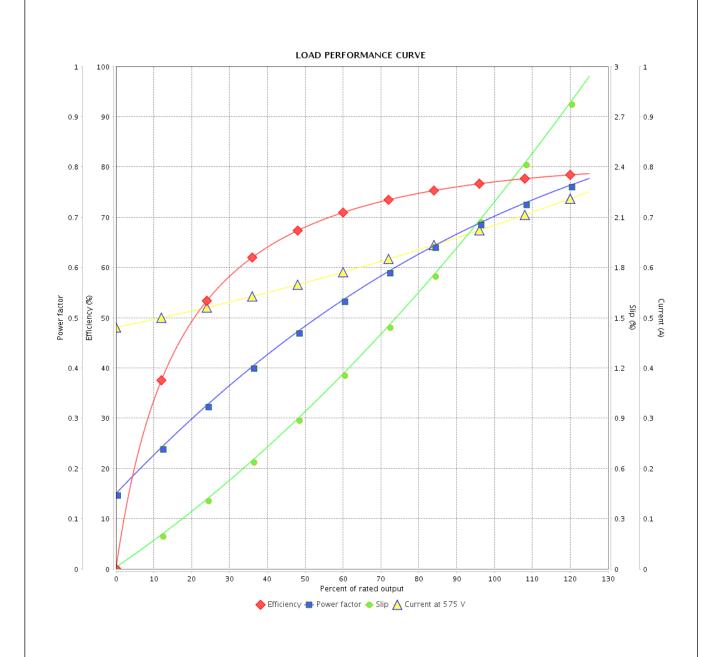
Three Phase Induction Motor - Squirrel Cage



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THERMAL LIMIT CURVE

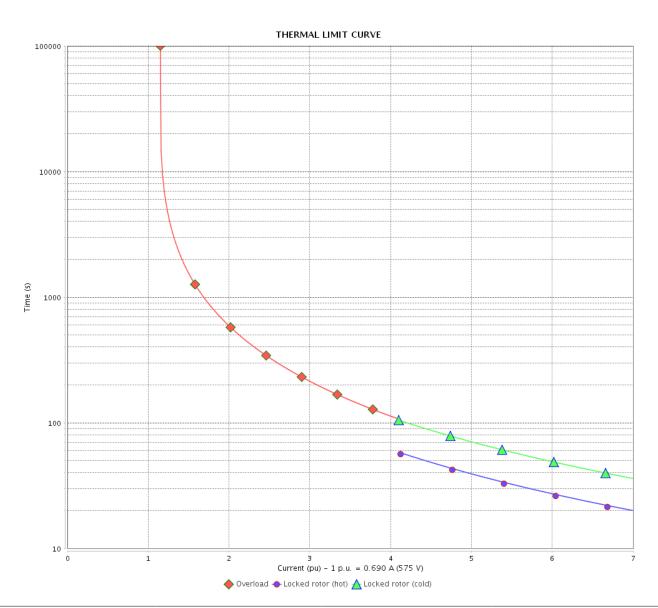
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Heating constant Cooling constant

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VFD OPERATION CURVE

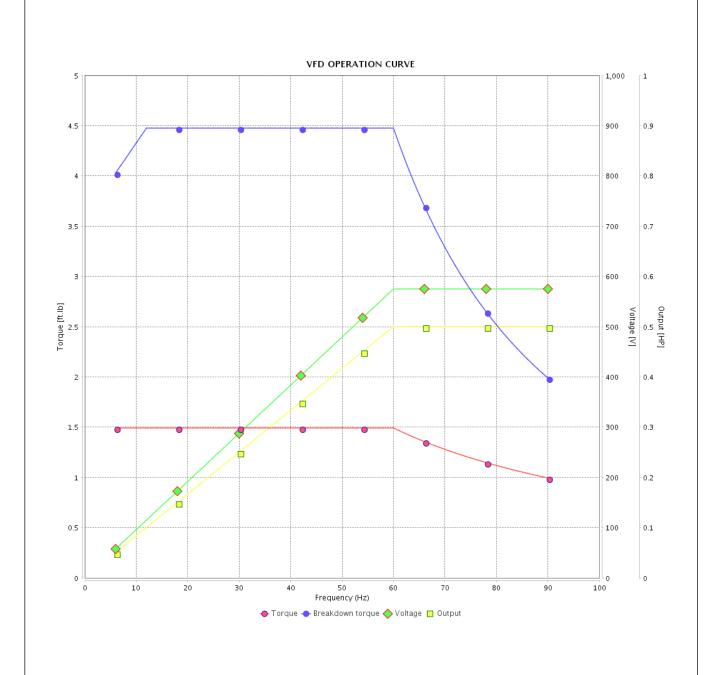
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 Performance
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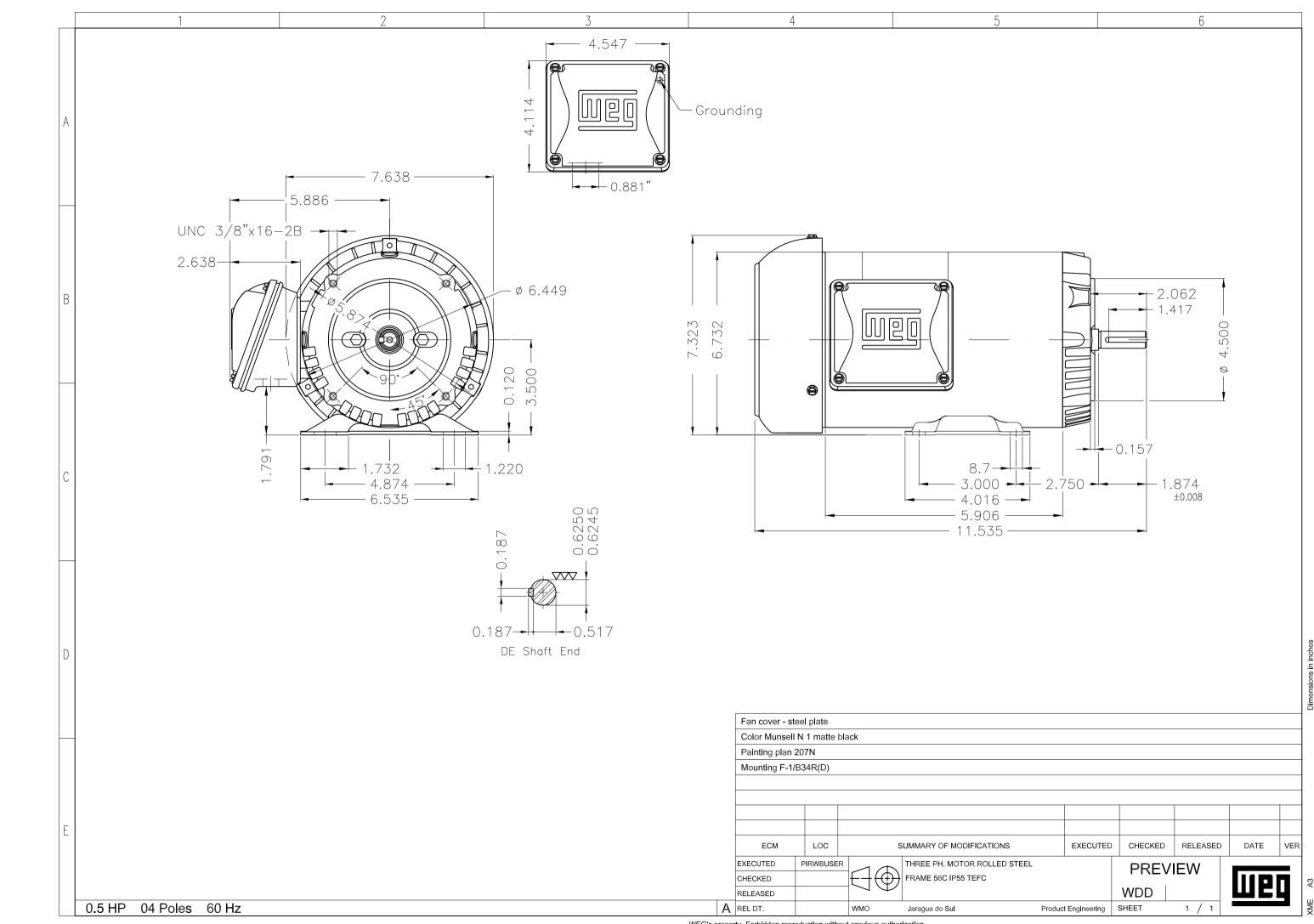
 Rated current
 : 0.690 A
 Moment of inertia (J)
 : 0.0584 sq.ft.lb

 LRC
 : 7.0
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 1.49 ft.lb
 Insulation class
 : F

Locked rotrque : 1.49 ft.lb Insulation class : F
Locked rotor torque : 240 % Service factor : 1.15
Breakdown torque : 300 % Temperature rise : 80 K
Rated speed : 1760 rpm

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JUS LISTED 3PT9 FOR SAFE AREA

> NO1.TEOICOXOX 14797028 MADE IN MÉXICO

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

> MODEL 5018ES3H56C-S 8 B 4MAR2022

8 4 CONT 56C

2

DES 1000 m.a.s.l F AT 80K 2°04

> NS CL INC. WB

0.690 0.793 1.15 0.70

0.37 575

CODE

TEFC

NOM. EFF 77.0%

NEMA ZPM 3FA ۹ 냃 쌆

For safe area-inverter duty motor For use on VPWM 1000:1 VT, 10:1 CT ODE 6202-22

8203-ZZ

牌

MOBIL POLYREX EM

T1-BLU T2-WHT

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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

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

AVERTISSEMENT: Le moteur doit être mis à la terre

shocks. Disconnect power source before servicing unit. WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

