

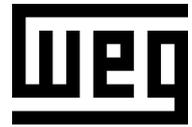
DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	: Automation Direct				
Product line	: Standard Efficiency Three-Phase		Product code :	14593617	
			Catalog # :	.7518ES3EBMW56-S	
Frame	: W56		Locked rotor time	: 21s (cold) 12s (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	: 17.6-15.9/7.93 A		Cooling method	: IC411 - TEFC	
LRC	: 6.5x(Code K)		Mounting	: F-1	
No load current	: 1.54-1.78/0.892 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1730 rpm		Noise level ²	: 50.0 dB(A)	
Slip	: 3.89 %		Starting method	: Direct On Line	
Rated torque	: 2.28 ft.lb		Approx. weight ³	: 29.4 lb	
Locked rotor torque	: 270 %				
Breakdown torque	: 290 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0479 sq.ft.lb				
Output	25%	50%	75%	100%	
Efficiency (%)	66.3	68.0	74.0	75.5	
Power Factor	0.29	0.52	0.65	0.75	
	Foundation loads				
			Max. traction	: 56 lb	
			Max. compression	: 85 lb	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6203 ZZ	6202 ZZ		
Sealing	:	V'Ring	Without Bearing Seal		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
Lubricant type	:	Mobil Polyrex EM			
Notes					
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
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DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : Automation Direct

Brake information

Voltage: 208-230/460//190/380 V
Brake Torque: 5.90 ft.lb

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TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

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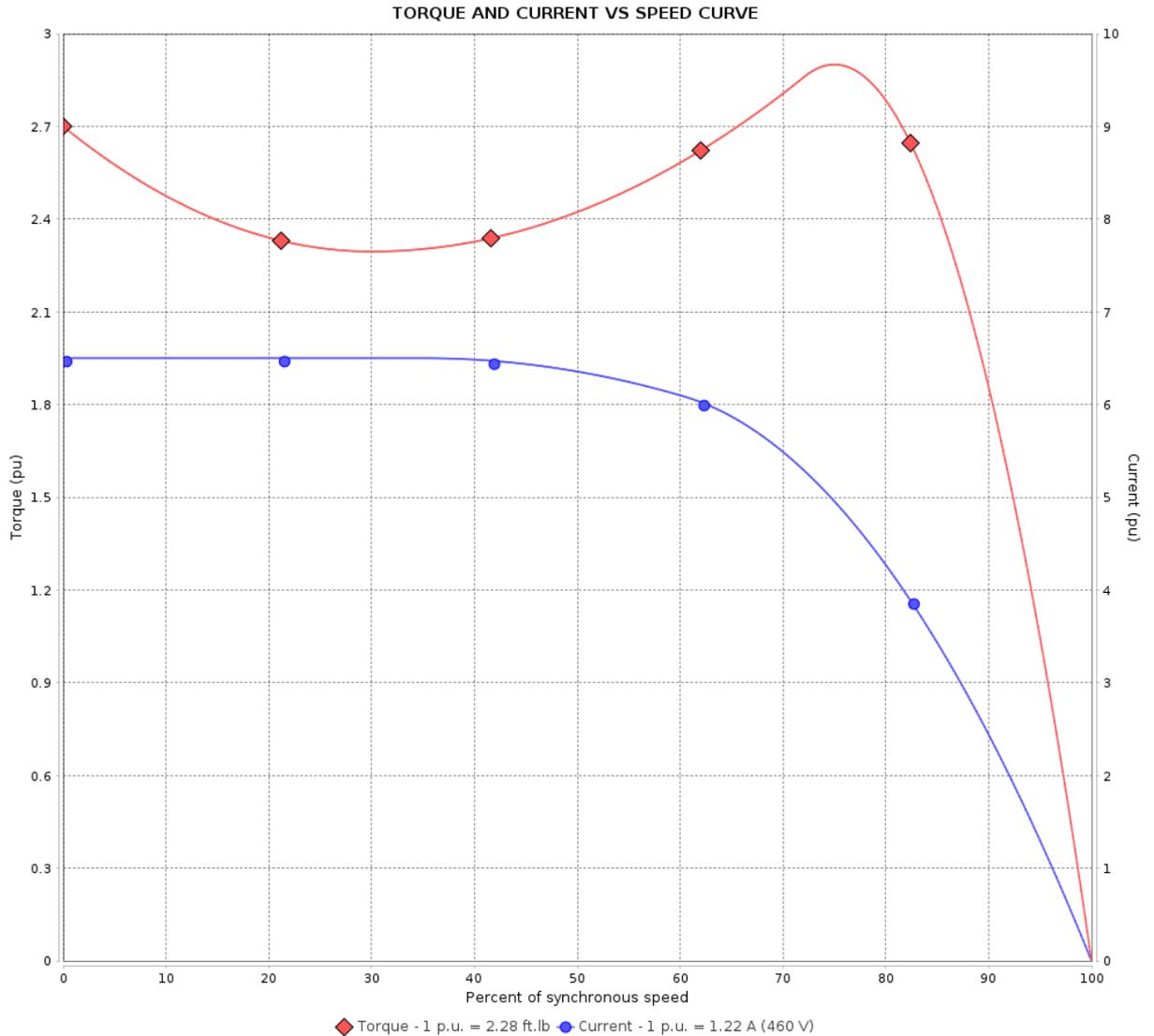
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Product code :

14593617

Catalog # :

.7518ES3EBMW56-S



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

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 LRC : 6.5
 Rated torque : 2.28 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 290 %
 Rated speed : 1730 rpm

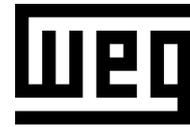
Moment of inertia (J) : 0.0479 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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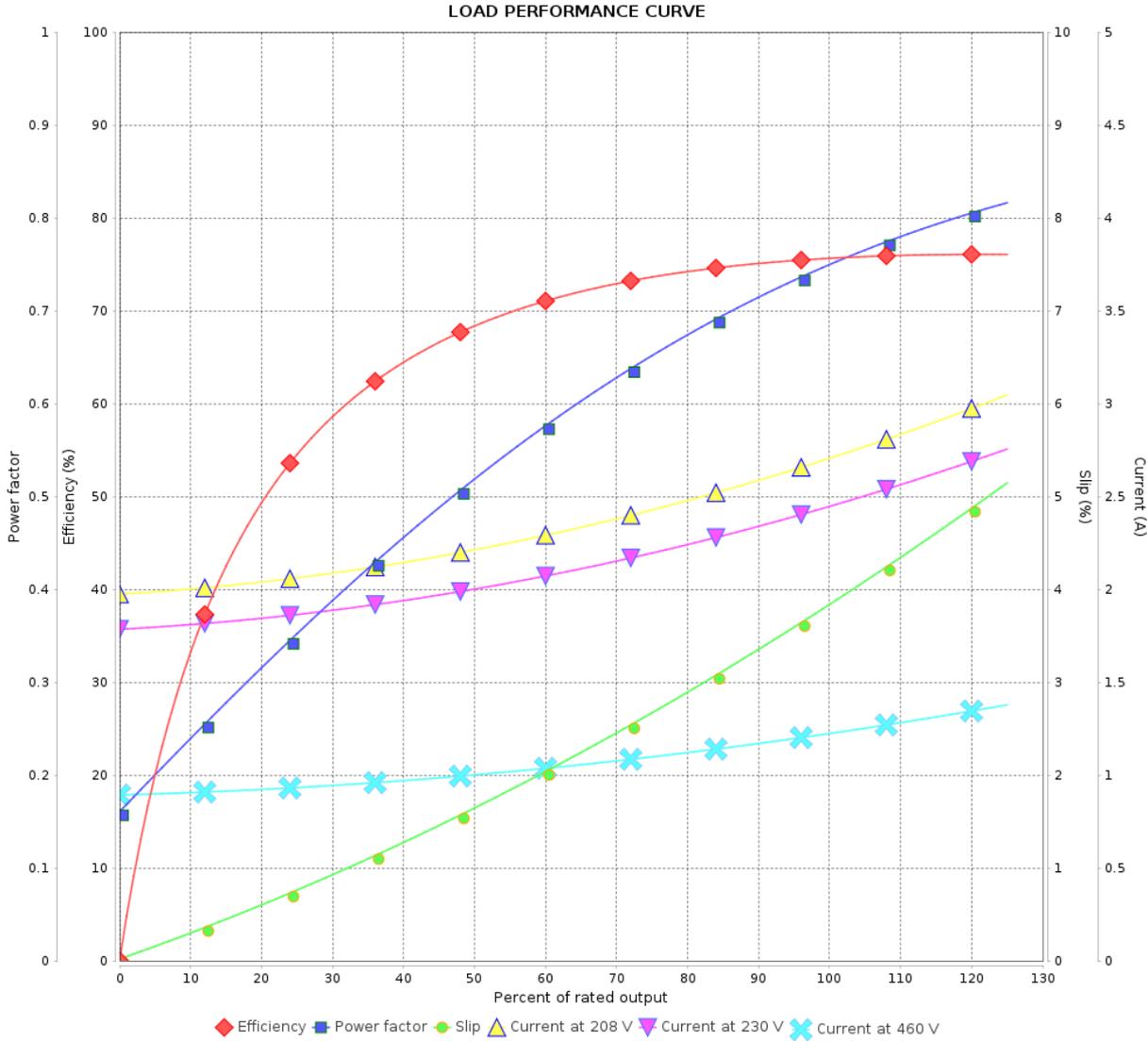
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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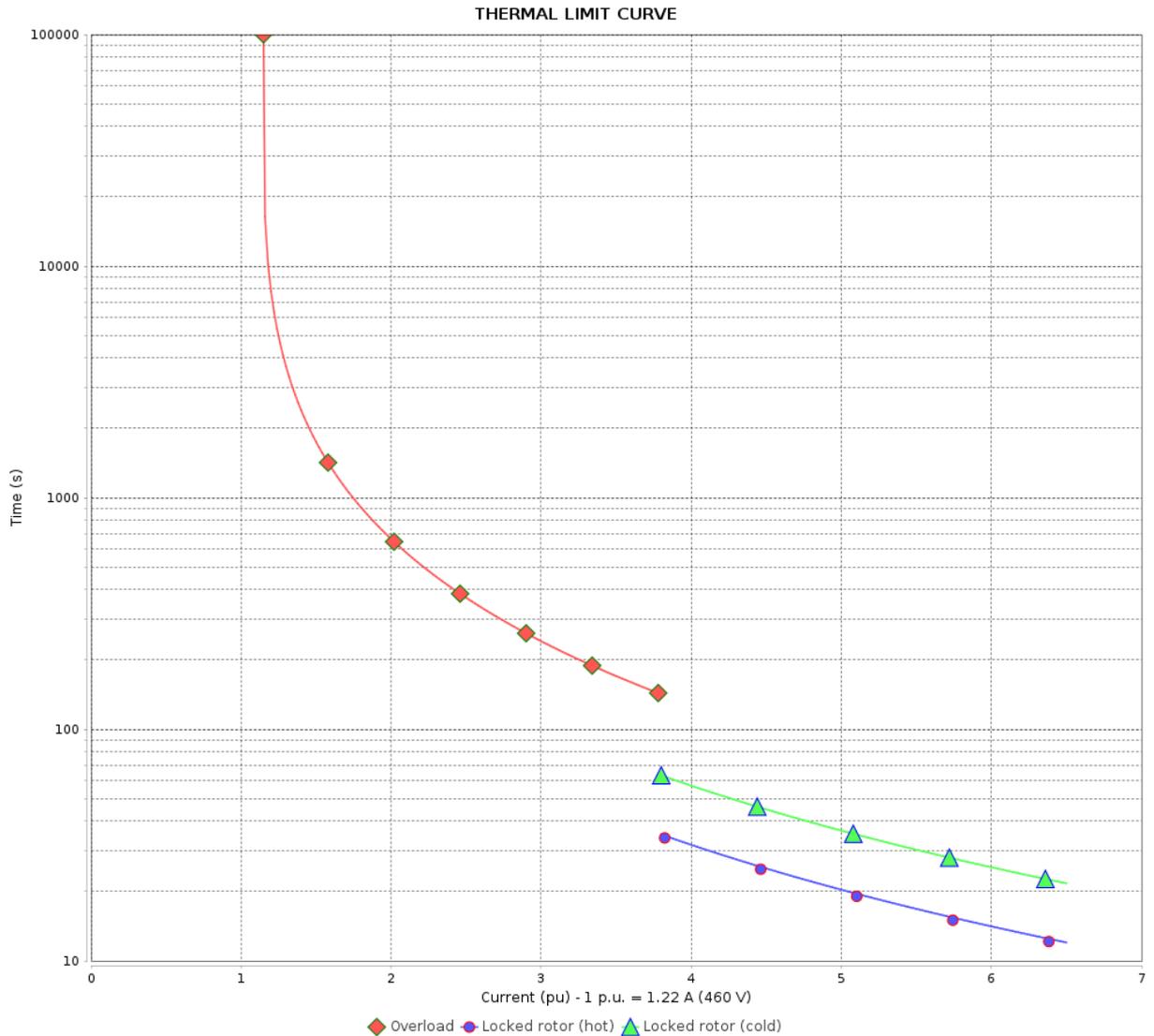
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 Insulation class : F
 Service factor :
 Temperature rise : 80 K

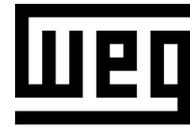
Heating constant

Cooling constant

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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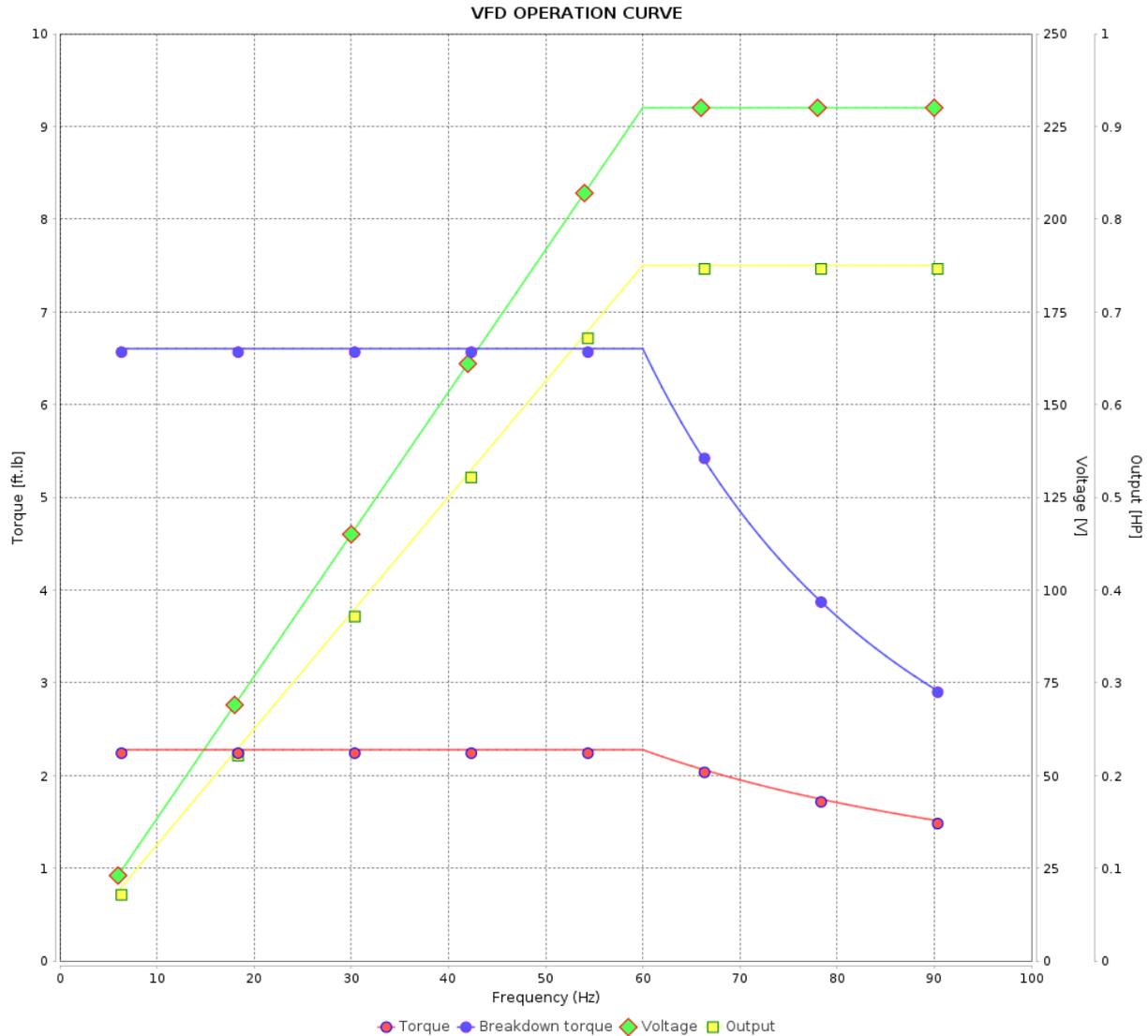
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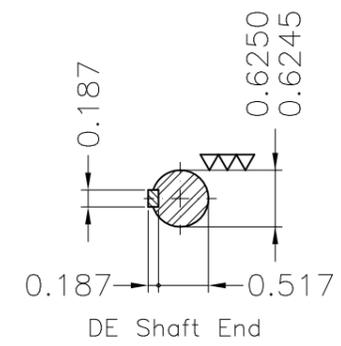
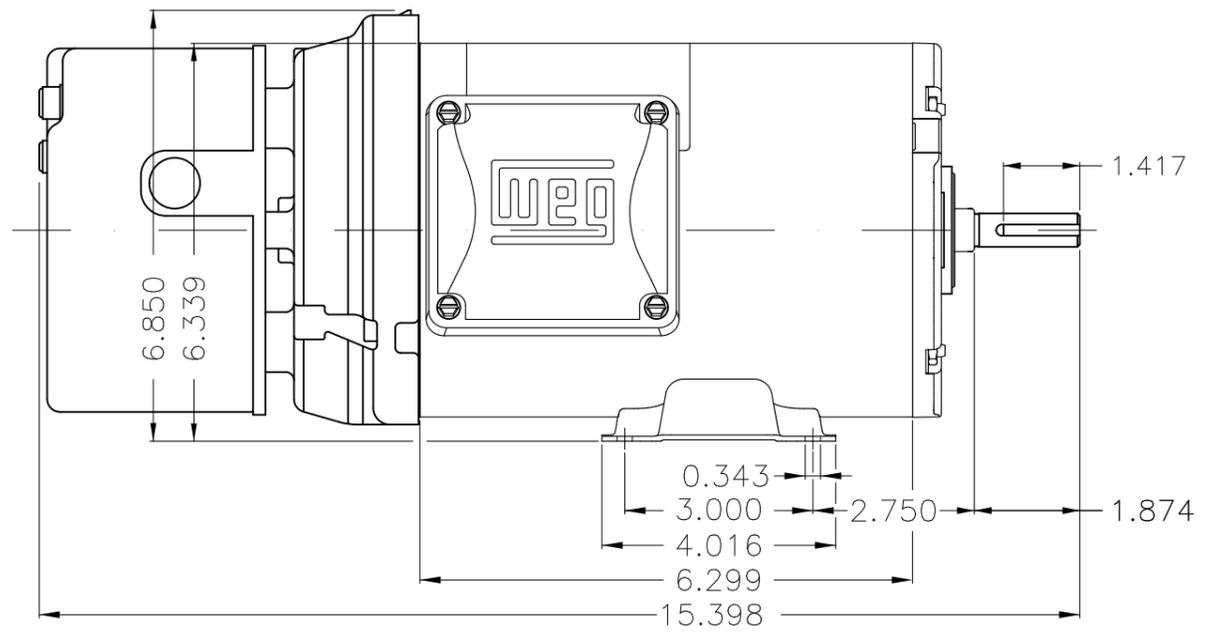
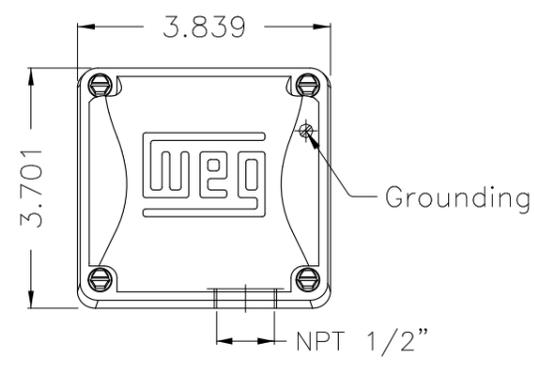
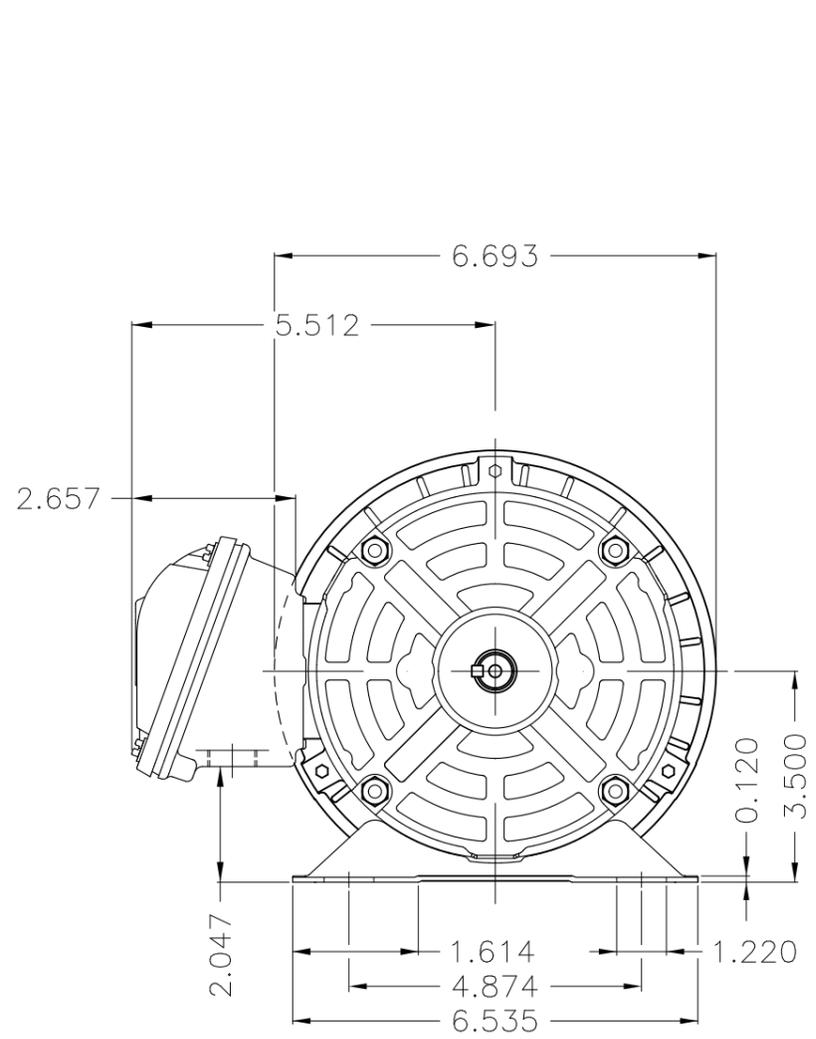
A

B

C

D

E



Color Munsell N 1 matte black
 Painting plan 207N
 Mounting B3D

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL					
CHECKED		FRAME W56 IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	PREVIEW		WDD	
			SHEET		1 / 1		

0.75 HP 04 Poles 60 Hz





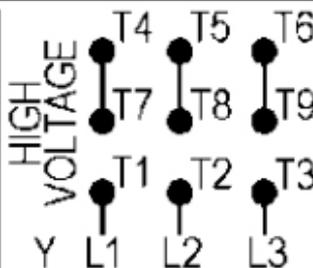
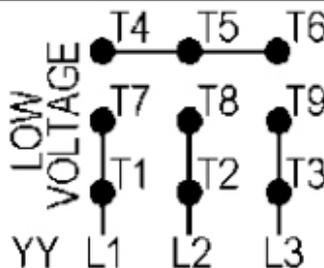
MADE IN MEXICO

MAT: 14593617

W01.TE0IC0X0X

MODEL .7518ES3EBMW56-S

PH 3	Hz 60	HP 0.75
FR W58		KW 0.55
DUTY CONT.		V 208-230/460
ALT 1000 m.a.s.l		A 2.70-2.44/1.22
INS CL F ΔT 80K	IP55	SFA 2.70-2.81/1.40
AMB 40°C	DES -	SF 1.15
ENCL TEFC	CODE K	PF 0.75
USABLE @ 208V SF1.00		RPM 1730
		NEMA NOM. EFF 75.5%
ALTERNATE RATING: 0.75HP 50Hz 190-220/380-415V SF1.00		
2.84-2.88/1.42-1.42A 1395RPM EFF 71.0% (IE1) IEC 60034-1		
Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT		
DE 8203-ZZ	ODE 8202-ZZ	MOBIL POLYREX EM



T1-BLU T2-WHT
 T3-ORG T4-YEL
 T5-BLK T6-GRY
 T7-PNK T8-RED
 T9-BRK RED

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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



AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.

