



Customer information packet

ECP4420T-4

100HP, 885RPM, 3PH, 60HZ, 445T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	125.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	125.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA

Part detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2153
Layout	617427-001
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	08
Leads	3#2
Proprietary	False
Created date	12-04-2013

Motor Type	A44060M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	44.75 IN
Power Factor	80
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	885 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

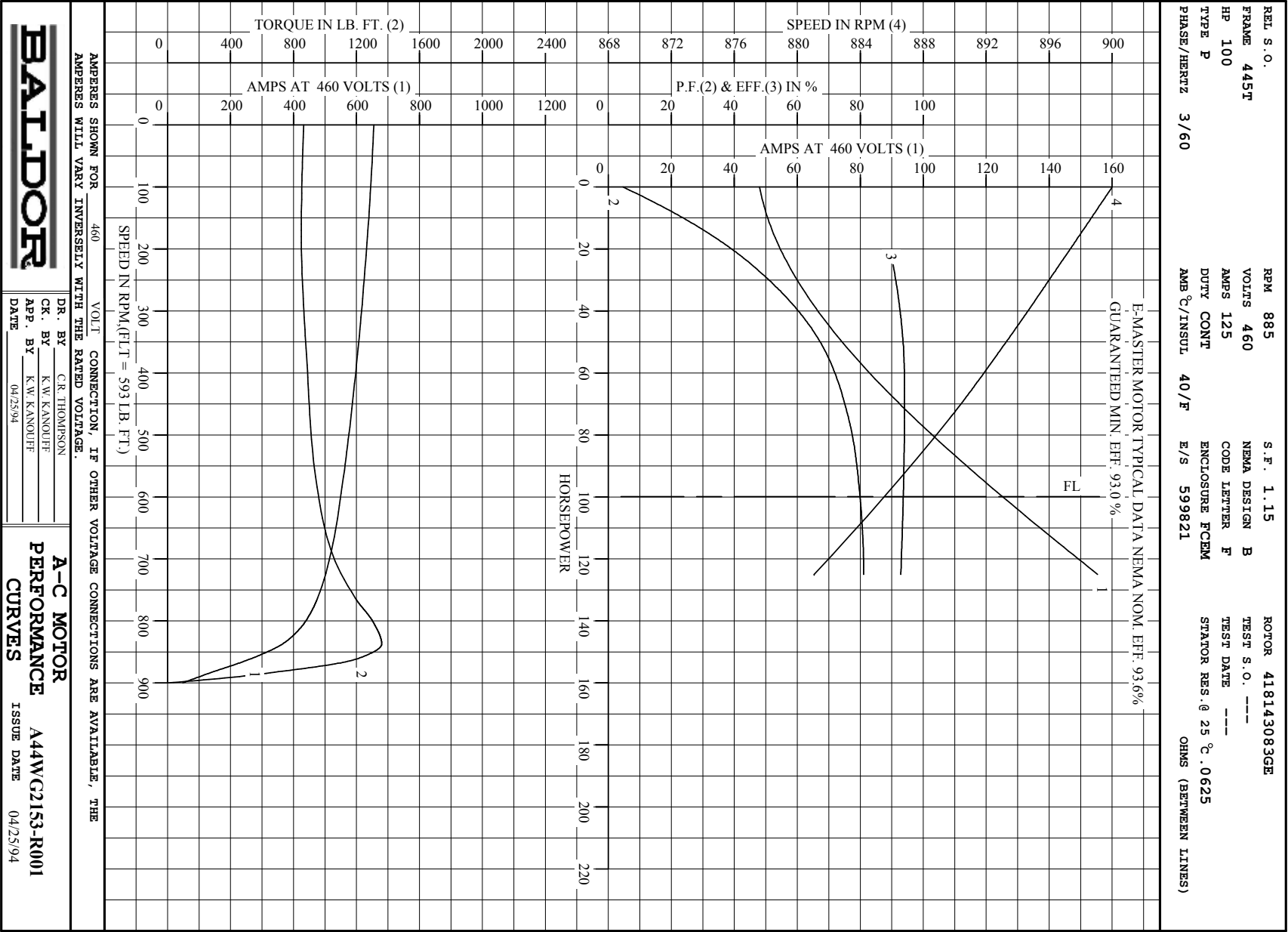
Nameplate

NP2496L	
MOBIL POLYREX EM	

NP3238

CAT NO	ECP4420T-4			SPEC NO.		A44-5203-2153				
HP	100	AMPS	125	VOLTS		460	DESIGN	B		
FRAME	445T	RPM	885	HZ	60	AMB	40	SF	1.15	
D.E. BRG.DATA	6318	O.D.E. BRG.DATA			6318	PH	3	DUTY	CONT	INSUL.CLASS F
D.E. BRG.	90BC03J30X			TYPE	P	ENCL	TEFC	CODE	F	
O.D.E. BRG.	90BC03J30X			POWER FACTOR			80	NEMA NOM EFFICIENCY		93.6
3/4 LOAD EFF.	94.0	MAX CORR KVAR			30.0	GUARANTEED EFFICIENCY			92.4	
TEMP CODE	T3	TEMP =	200							
CHP HZ	60-90	CT HZ	15-60	VT HZ	0-60					
INVERTER-TEMP-CODE	T3									
SER.NO.				MOTOR WEIGHT						

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	445T	100	P	3/60	885	460
AMPS	DUTY	AMB °C/INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
125	CONT	40/F	1.15	B	F	FCIM
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
599821	418143083GE	---	---	.0625		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	48.1	900	4.66	0	
1/4	25.1	57.0	897	45.5	90.4	
2/4	50.0	74.4	893	67.3	93.6	
3/4	75.0	97.8	890	76.4	94.0	
4/4	99.9	125	886	79.9	93.7	
5/4	125	155	881	81.1	92.9	
SPEED TORQUE						
	RPM	% TORQUE FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	146	865	655		
PULL UP	180	143	850	635		
BREAKDOWN	837	229	1360	365		
FULL LOAD	886	100	593	125		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: E-MASTER MOTOR TYPICAL DATA NEMA NOM. EFF. 93.6% GUARANTEED MIN. EFF. 93.0 %						
		DR. BY C.R. THOMPSON CK. BY K.W. KANOUFF APP. BY K.W. KANOUFF DATE 04/25/94		A-C MOTOR PERFORMANCE DATA A44WG2153-R001 ISSUE DATE 04/25/94		



Printed on 2/2/11 13:41 @ usmghengdev1

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

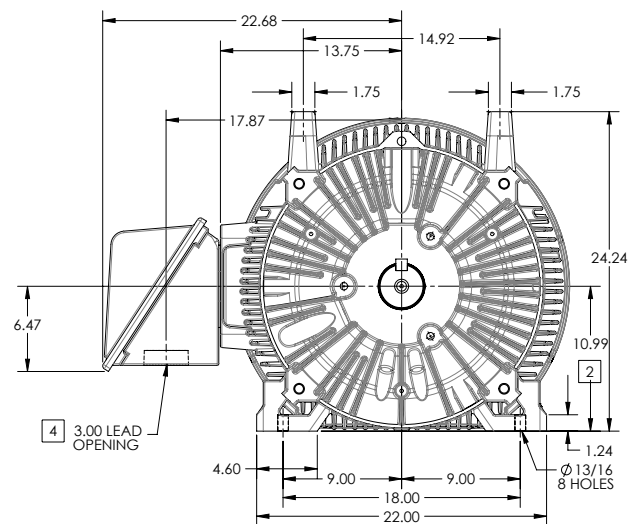
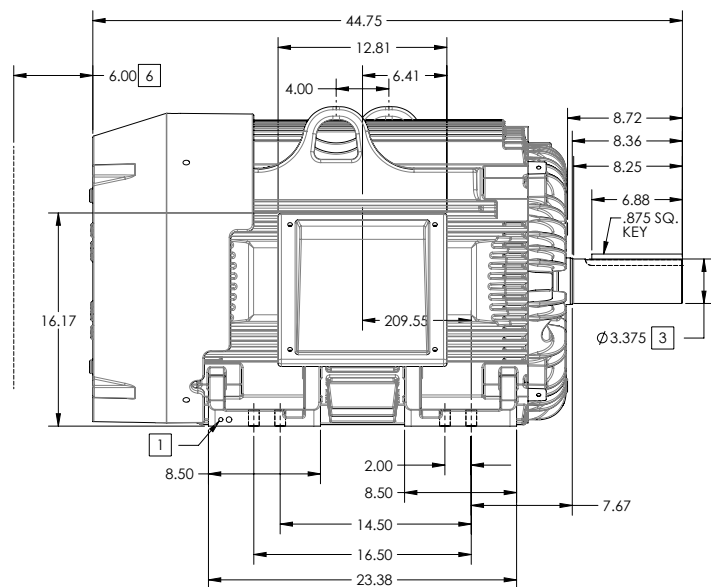
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NOT ENCRATCH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

5 WEIGHT (LBS): 2130

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION			
REV: E	VERSION: 05	REVISED: 09-22-56 06/12/2014	TDR: 000000857938
MODEL NO. 617427-001			REF:
BY: RAGRA		Material:	

BALDOR

G445T/444T STD – FOOTED – SIDE/CENTER C/B

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

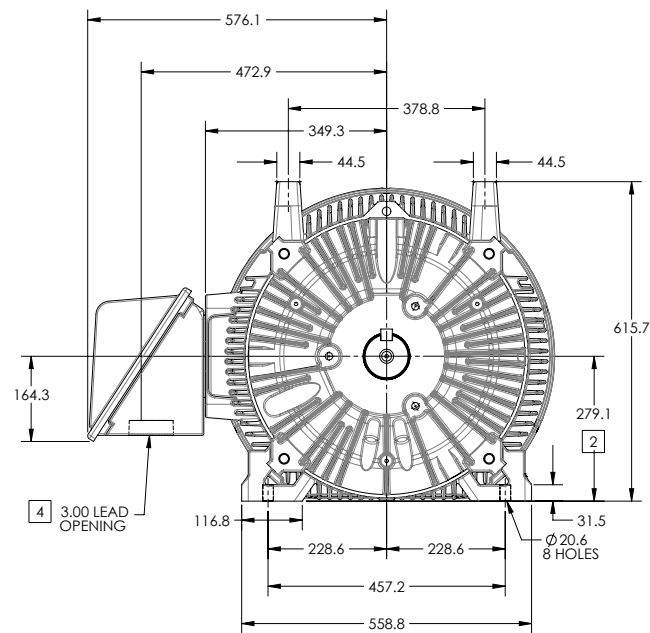
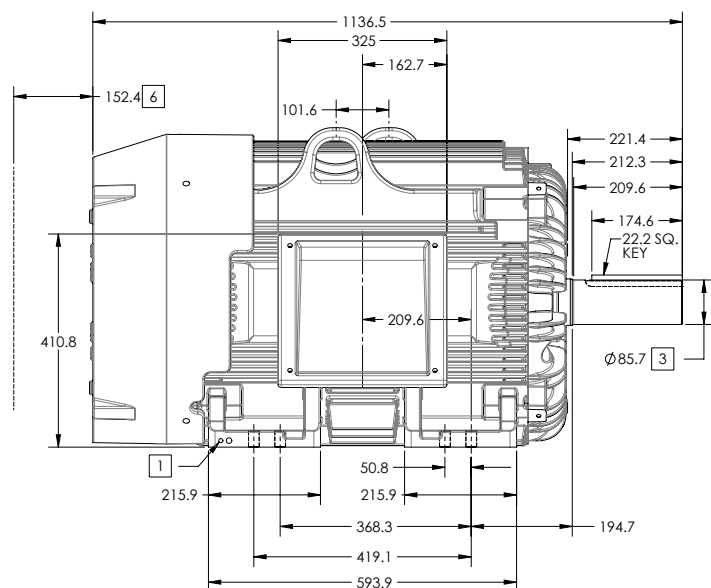
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +0,-1.5
3. VARIES +00,-.03
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NOT ENCR OACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

[5] WEIGHT (KGS): 970

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER
2 OF 2

100-2272119

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION	
REV: E VERSION: 05 REVISED: 09-22-56 06/12/2014 TDR: 00000857938	
MODEL NO. 617427-001 REF:	
BY: RAGRA Material:	

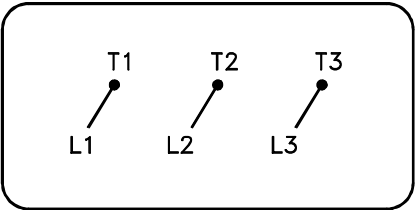
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G445T444T STD - FOOTED - SIDE/CENTER C/B

617427-001

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225

REV. LTR: -

VERSION: 00

TDR: 000000538207

FILE: \MGA\00000\682

REVISED: 11: 54: 06 04/30/2010

MTL: -

BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD

SH 1 of 1