



Customer information packet

EM25452T-4

450HP, 3570RPM, 3PH, 60HZ, 449TS, DP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	449TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	450.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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)
Current @ Voltage	494.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	494.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 1 AWG
Motor Standards	NEMA
Motor Type	A44112M

Part detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2693
Layout	604989-595
Eff. date	07-18-2022
CD Diagram	416820-008
Poles	02
Leads	6#1 (02 per group)
Proprietary	False
Created date	11-23-2015

Mounting Arrangement	F1
Number of Poles	2
Overall Length	44.31 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

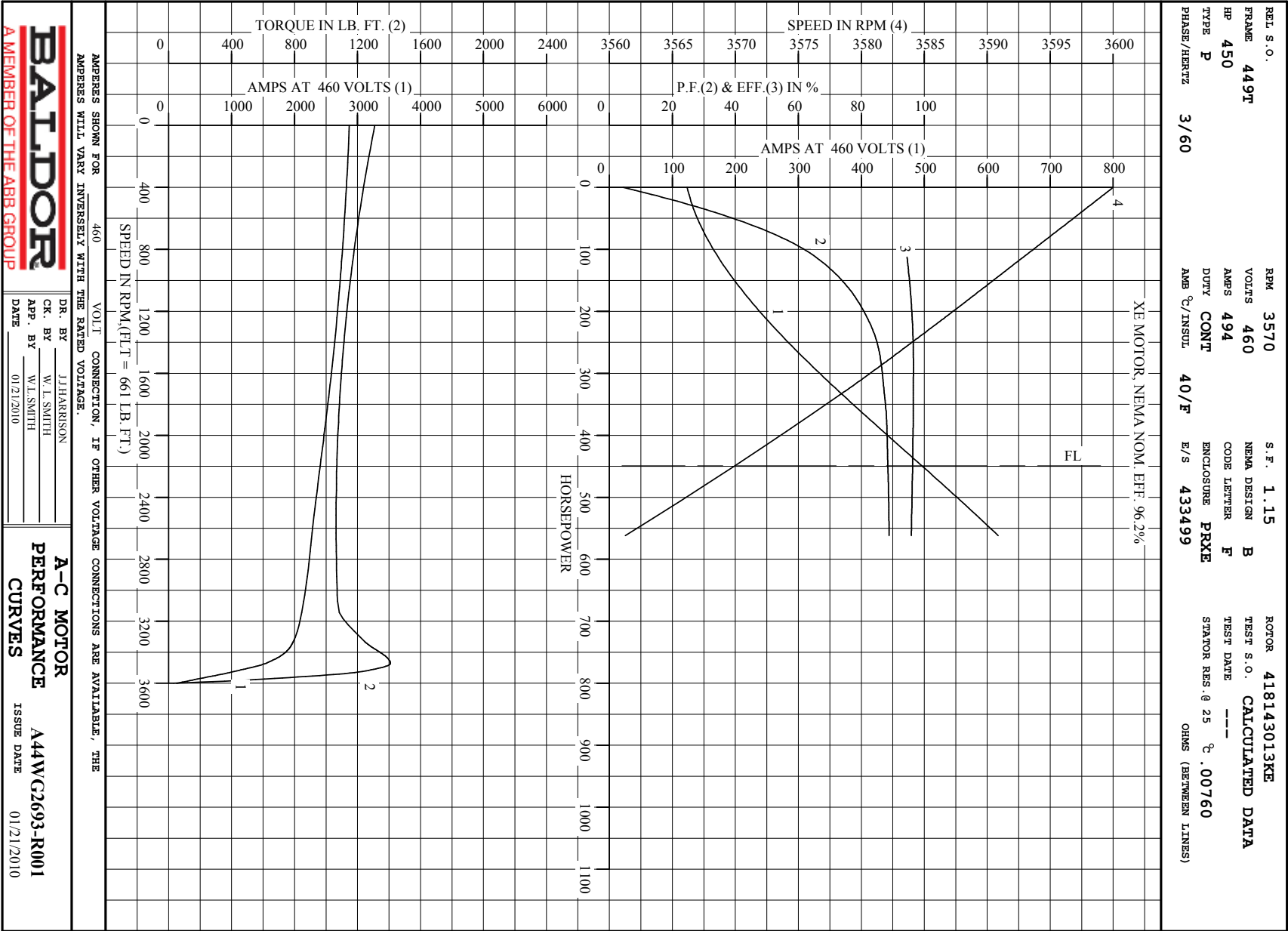
Nameplate

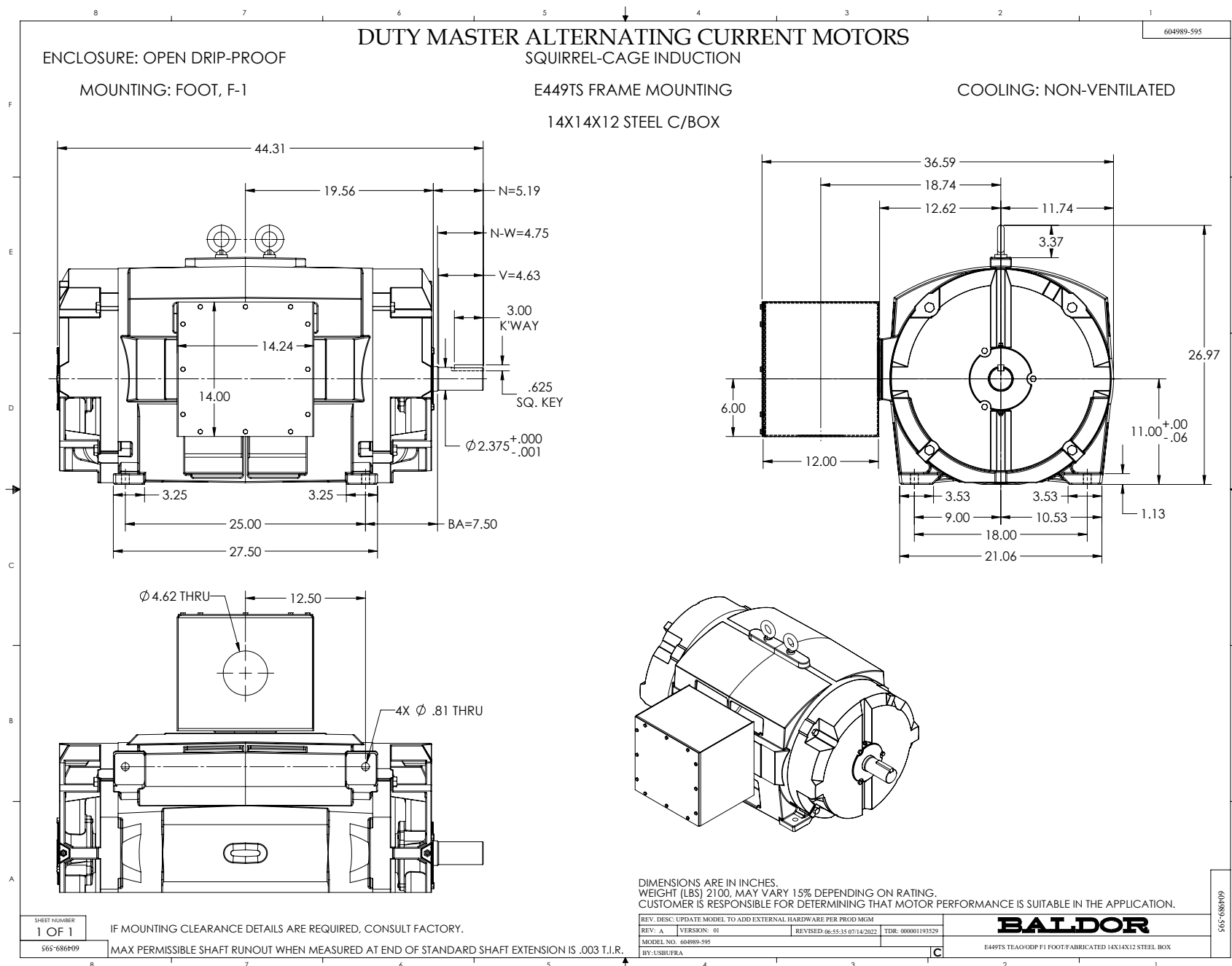
NP2496L	
MOBIL POLYREX EM	

NP2349L

SPEC NO.	A44-8054-2693			CAT.NO.	EM25452T-4					FRAME	449TS	
HP	450	VOLTS	460		PHASE	3	DESIGN	B	TYPE	P		
RPM	3570	AMPS	494		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03J30X			DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	65BC03J30X			ENCL	DP	CODE	F					
SER.NO.				POWER FACTOR		88	NEMA-NOM-EFFICIENCY				96.2	
						MAX CORR KVAR		75	GUARANTEED EFFICIENCY		95.4	
						NEMA NOM/CSA QUOTED EFF						
											MOTOR WEIGHT	

REL. S. O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	450	P	3/60	3570	460
AMPS	DUTY	AMB°C/ INSUL.	S. F.	NEMA DESIGN	CODE LETTER	ENCL.
494	CONT	40/F	1.15	B	F	PRXE
E/S	ROTOR		TEST S. O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)	
433499	418143013KE		---	---	.00760	
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR	% EFFICIENCY	
NO LOAD	0	124	3600	4.41	0	
1/4	113	170	3593	65.6	94.5	
2/4	225	263	3586	83.2	96.3	
3/4	337	374	3578	87.4	96.5	
4/4	450	494	3570	88.4	96.3	
5/4	562	618	3561	88.8	95.9	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB. -FT.	AMPERES	
LOCKED ROTOR	0	198	1310	2870		
PULL UP	2550	161	1064	2300		
BREAKDOWN	3472	213	1409	1539		
FULL LOAD	3570	100	661	494		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: CALCULATED DATA XE MOTOR, NEMA NOM. EFF. 96.2%						
ABB A MEMBER OF THE ABB GROUP DR. BY CK. BY APP. BY DATE J. J. HARRISON W. L. SMITH W. L. SMITH 01/21/2010 A-C MOTOR PERFORMANCE DATA ISSUE DATE A44WG2693-R001 01/21/20						

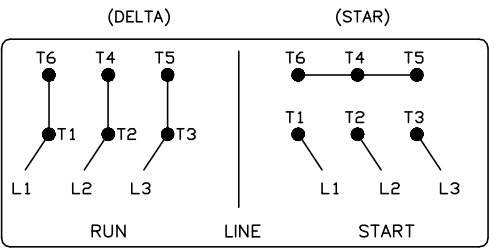
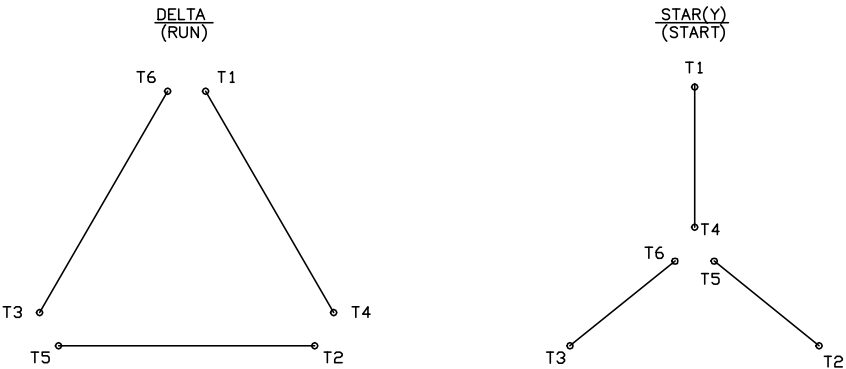




416820-008

A-C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD Y START – DELTA RUN



< N. P. 1767-DC >

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM		
REV. LTR: D	VERSION: 04	TDR: 000000847713
FILE: \RAG\00001\808	REVISED: 10: 41: 26 04/08/2014	BY: RAGJSS1
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BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN
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