



Customer information packet

EM2565T-4

250HP, 3565RPM, 3PH, 60HZ, 445TS, DP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	445TS
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	250.000 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	274.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	274.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44068M

Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1392
Layout	617428-044
Eff. date	09-25-2025
CD Diagram	416820-008
Poles	02
Leads	6#1/0
Proprietary	False
Created date	04-24-2015

Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.88 IN
Power Factor	89
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	3565 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

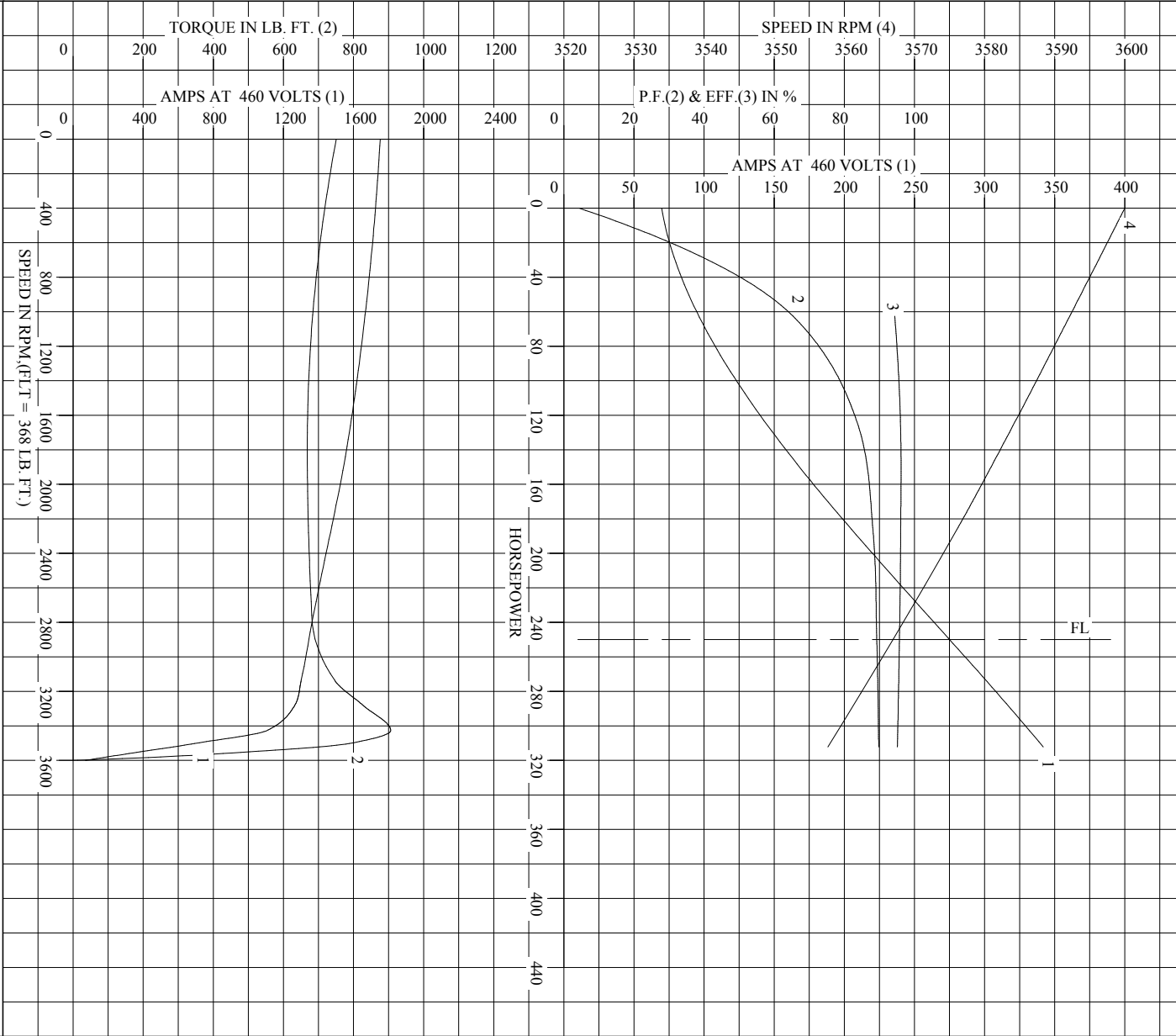
NP2496L	
MOBIL POLYREX EM	

NP2349L

SPEC NO.	A44-7177-1392			CAT.NO.	EM2565T-4				FRAME	445TS	
HP	250	VOLTS	460		PHASE	3	DESIGN	B	TYPE	P	
RPM	3565	AMPS	274		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		89	NEMA-NOM-EFFICIENCY				95.4	
						MAX CORR KVAR		30	GUARANTEED EFFICIENCY		94.5
						NEMA NOM/CSA QUOTED EFF					
						MOTOR WEIGHT					

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445TSC	250	P	3/60	3565	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
274	CONT	40/F	1.15	B	F	PROT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
498702	418143-14-ME	---	---	.0218		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	70.1	3600	4.36	0	
1/4	62.6	95.0	3592	65.4	94.4	
2/4	125	145	3584	83.8	96.0	
3/4	187	207	3576	88.2	96.1	
4/4	250	274	3567	89.3	95.7	
5/4	312	342	3558	89.8	95.1	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	204	751	1752		
PULL UP	1800	181	668	1560		
BREAKDOWN	3427	246	906	1106		
FULL LOAD	3567	100	368	274		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA						
				DR. BY J.J. HARRISON CK. BY W.L. SMITH APP. BY W.L. SMITH DATE 09/24/10		
				A-C MOTOR PERFORMANCE DATA A44WG1392-R001 ISSUE DATE 12/18/10		

REL. S.O.	445TSC	RPM 3565	S.F. 1.15	ROTOR 418143-14-ME
FRAME HP 250		VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P		AMPS 274	CODE LETTER F	TEST DATE ---
PHASE/HERTZ 3/60		DUTY CONT	ENCLOSURE PROT	STATOR RES. @ 25 °C .0218
		AMB °C/INSUL 40/F	E/S 498702	OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLTS CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

DR. BY J. HARRISON
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 09/24/10

A-C MOTOR PERFORMANCE CURVES
A44WG1392-R001
ISSUE DATE 12/18/10

REL. S.O.	RPM 3565	S.F. 1.15	ROTOR 418143-14-ME
FRAME 445TSC	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 250	AMPS 274	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE PROT	STATOR RES. @ 25 °C. 0218
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 498702	OHMS (BETWEEN LINES)

10.00

9

8

7

6

5

4

3

2

1.00

9

8

7

6

5

4

3

2

1

0

TIME IN SEC.

OVERLOAD

LOCKED-ROTOR, 40 °C

LOCKED-ROTOR

% FULL LOAD CURRENT

200

400

600

800

1000

1200

1400

REMARKS:

THERMAL LIMIT CURVE

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY J.HARRISON

CK. BY W.L.SMITH

APP. BY W.L.SMITH

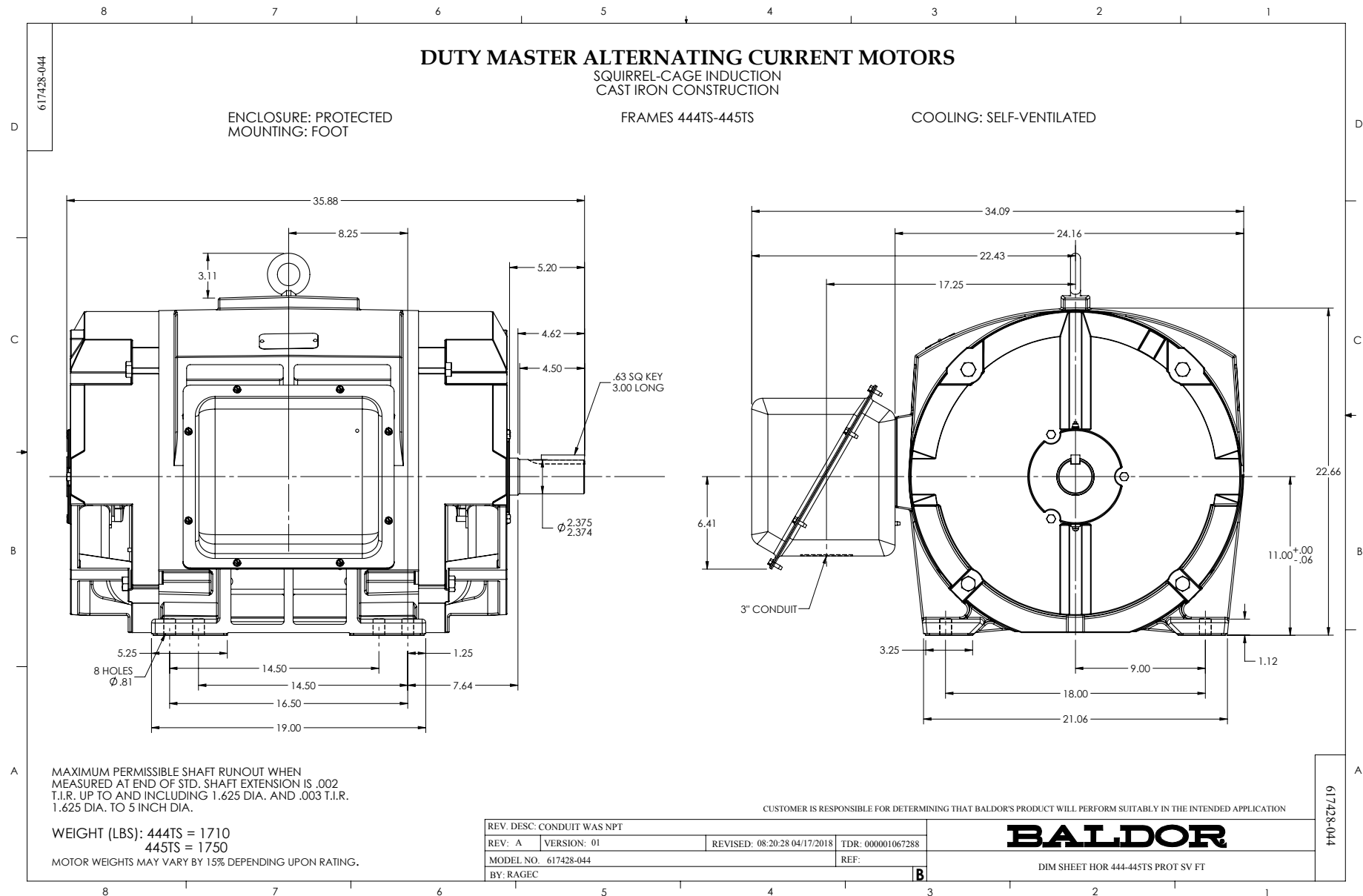
DATE 09/24/10

A-C MOTOR

PERFORMANCE CURVES

A44WG1392-R001

ISSUE DATE 12/8/10

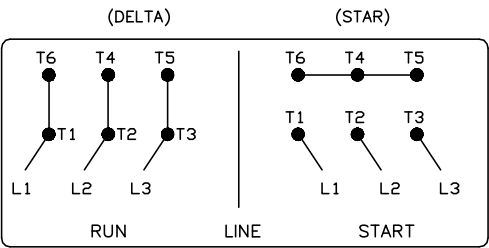
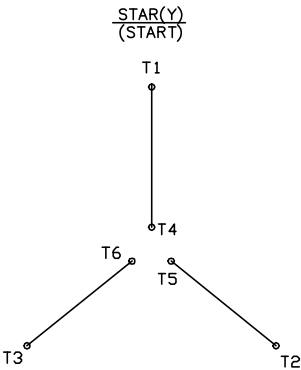
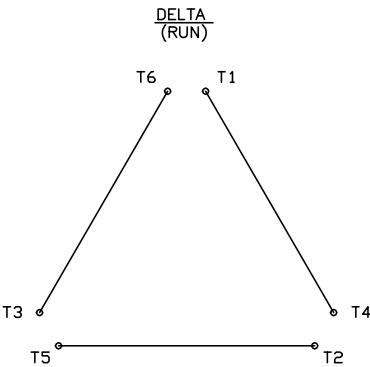


416820-008

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

MTL: -

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1

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