



Customer information packet

EM2563T-4

200HP, 1780RPM, 3PH, 60HZ, 445T, 1880M, OPEN

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	445T
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	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	222.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	222.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1 AWG
Motor Standards	NEMA
Motor Type	A44072M
Mounting Arrangement	F1

Part detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1483
Layout	616508-006
Eff. date	12-10-2025
CD Diagram	416820-008
Poles	04
Leads	6#1
Proprietary	False
Created date	10-19-2010

Number of Poles	4
Overall Length	39.56 IN
Power Factor	88
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

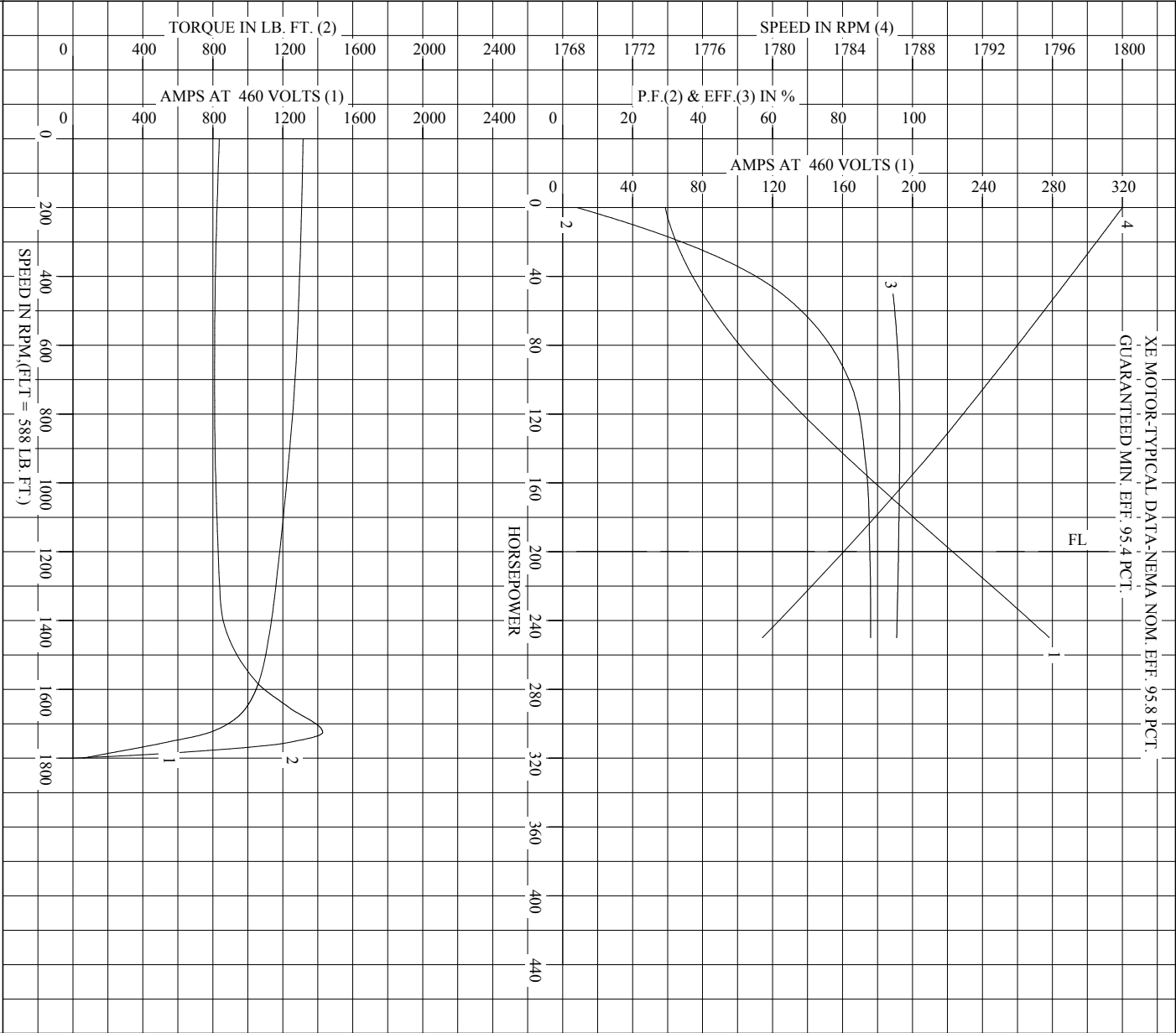
Nameplate

NP2377L

CAT.NO.	EM2563T-4				SPEC NO.	P44G1774			
HP	200	AMPS	222		VOLTS	460		DESIGN	B
FRAME	445T	RPM	1785	HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	90BC03J30X		PHASE	3	DUTY	CONT	INSUL.CLASS		F
OPP D.E. BEARING	90BC03J30X		TYPE	P	ENCL	DP	CODE	F	
SER.NO.					POWER FACTOR	88		NEMA-NOM-EFFICIENCY	95.8
						MAX CORR KVAR	35.0	GUARANTEED EFFICIENCY	95.4
						NEMA NOM/CSA QUOTED EFF			
						MOTOR WEIGHT			

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	200	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
222	CONT	40/F	1.15	B	F	DP
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
599694	418143042TE	---	---	.0238		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	58.9	1800	4.10	0	
1/4	50.1	79.2	1796	62.6	94.4	
2/4	100	119	1792	81.8	96.2	
3/4	150	168	1788	86.7	96.3	
4/4	200	222	1784	87.8	96.0	
5/4	250	279	1779	88.0	95.5	
SPEED TORQUE						
	RPM	% TORQUE FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	142	837	1316		
PULL UP	700	138	810	1270		
BREAKDOWN	1725	243	1428	781		
FULL LOAD	1784	100	588	222		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.8 PCT. GUARANTEED MIN. EFF. 95.4 PCT.						
			DR. BY J.J.HARRISON CK. BY W.L. SMITH APP. BY W.L. SMITH DATE 10/19/09		A-C MOTOR PERFORMANCE DATA A44WG1483-R001 ISSUE DATE 12/18/10	

REL. S.O.		RPM	1785	S.F.	1.15	ROTOR	418143042TE
FRAME	445T	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	200	AMPS	222	CODE LETTER	F	TEST DATE	---
TYPE	P	DUTY CONT		ENCLOSURE	DP	STATOR RES. @ 25 °C	.0238
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	599694	OHMS (BETWEEN LINES)	



AMPERES SHOWN FOR 460 VOLTS 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 10/19/09

A-C MOTOR PERFORMANCE CURVES
A44WG1483-R001
ISSUE DATE 12/18/10

REL. S.O.
FRAME 445T
HP 200
TYPE P
PHASE/HERTZ 3/60

RPM 1785
VOLTS 460
AMPS 222
DUTY CONT
AMB °C/INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER F
ENCLOSURE DP
E/S 599694

ROTOR 418143042TE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25 °C. 0238
OHMS (BETWEEN LINES)

10.00
9
8
7
6
5
4
3
2
1.00
9
8
7
6
5
4
3
2
1

0100200300400500600700

TIME IN SEC.

% FULL LOAD CURRENT

OVERLOAD

92 C FOR OVERLOAD AND ACC.

92 C FOR LOCKED-ROTOR

LOCKED-ROTOR, 40.C

ACCELERATION

LOCKED-ROTOR

REMARKS:
THERMAL LIMIT CURVE
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.8 PCT.
GUARANTEED MIN. EFF. 95.4 PCT.

AMPERES SHOWN FOR 460 VOLT 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 10/19/09

A-C MOTOR
PERFORMANCE CURVES
A44WG1483-R001
ISSUE DATE 12/8/10

Printed on 12/18/10 5:57 @ pacs-motorei

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616508-006

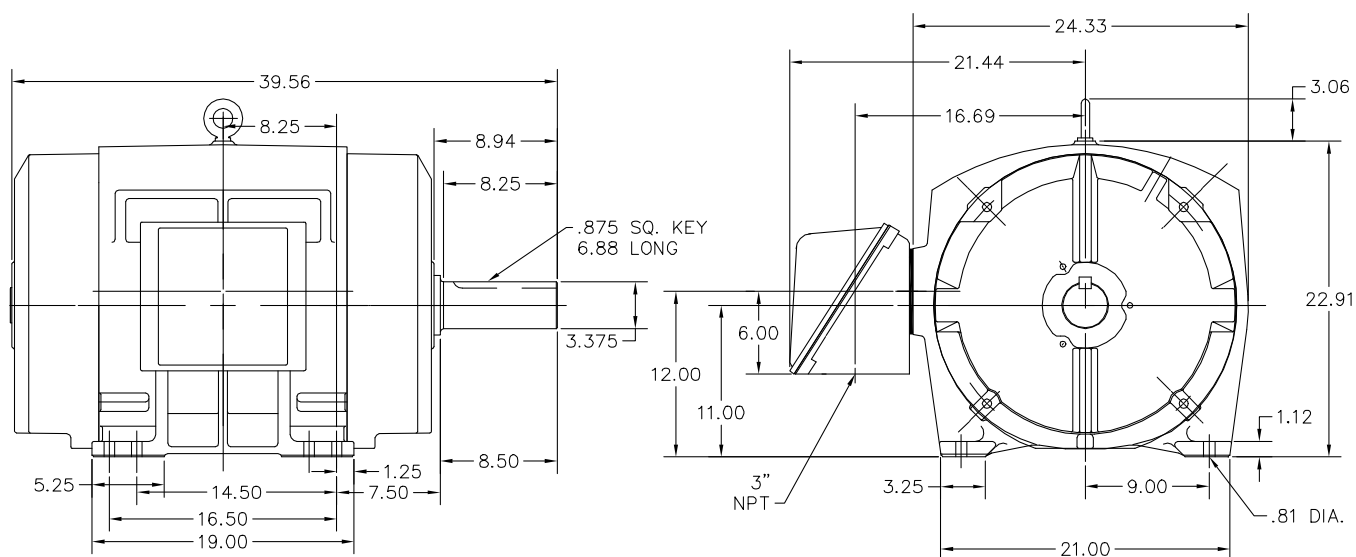
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: PROTECTED
MOUNTING: FOOT

COOLING: SELF-VENTILATED

FRAMES 444T THRU 445T



NOTES:
SCALE DWG. FOR COMPLETE DIMENSIONS
SEE DS 611750-501

FRAME--	TYPE--	CERTIFIED FOR--
ORDER--	ITEM--	HP-- RPM--
SALES ORDER--	APPROVED BY--	DATE--
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.		
REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000557201
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MTL: --		

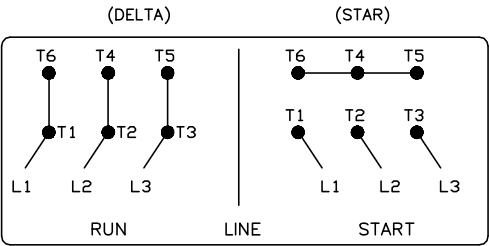
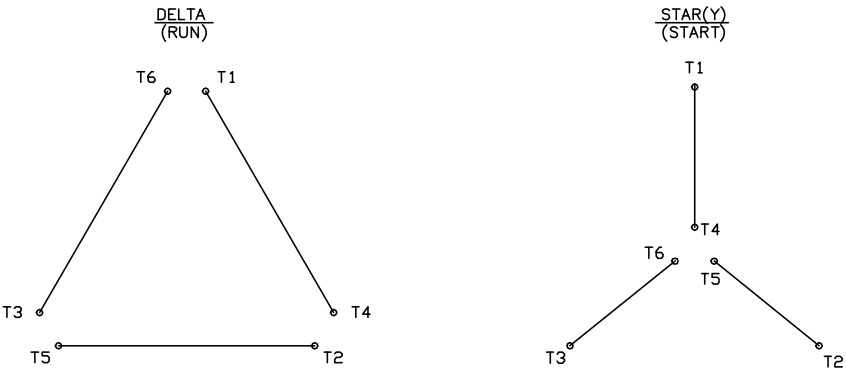
BALDOR
DIM SHT 444T-445T ODP FT
SH 1 of 1

900-805919

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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