

ABB BALDOR RELIANCE III

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	CURUSEEV
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	Standard
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						

Parts List

Part number	Description	Quantity
SA207133	SA P44G1774	1.000 ea
RA194400	RA P44G1774	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2377L	SS SUPER-E, CC, CURUS ENERGY (LASER)	1.000 ea
421948044	LABEL, MYLAR	1.000 ea
004824015A	GREASE POLYREX EM	1.156 lb
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 ea
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 ea
032018036DK	HHCS 1/2-13X4-1/2 PLTD.	3.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089439051A	BRKT 440 089439051WCB	1.000 ea
089439051A	BRKT 440 089439051WCB	1.000 ea
410700004A	WSHR	1.000 ea
702611001A	BAFFL 440 SUB PAINT	1.000 ea
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 ea
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 ea
032018036DK	HHCS 1/2-13X4-1/2 PLTD.	3.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
048897010DJ	BUSH - 445	1.000 ea
067053001C	GASK 440	1.000 ea

076863000C	+CBCST BLKT - 440	1.000 ea
076864000A	*MFC MOVE* CBCST BLKT - 440	1.000 ea
406056007A	GASKET, 440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025Y17	WILKOFAS, 789.701, SUPER E PEARL GOLD	0.250 ga
418150003A	GREASE FITTING CAP	1.000 ea
415045002A	SLGR	1.000 ea
702611001A	BAFFL 440 SUB PAINT	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
032510024D	CARRIAGE BOLT - 444	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

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 A44WG1483-R001 DATA ISSUE DATE 12/18/10		

FRAME 445T

RPM 1785 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

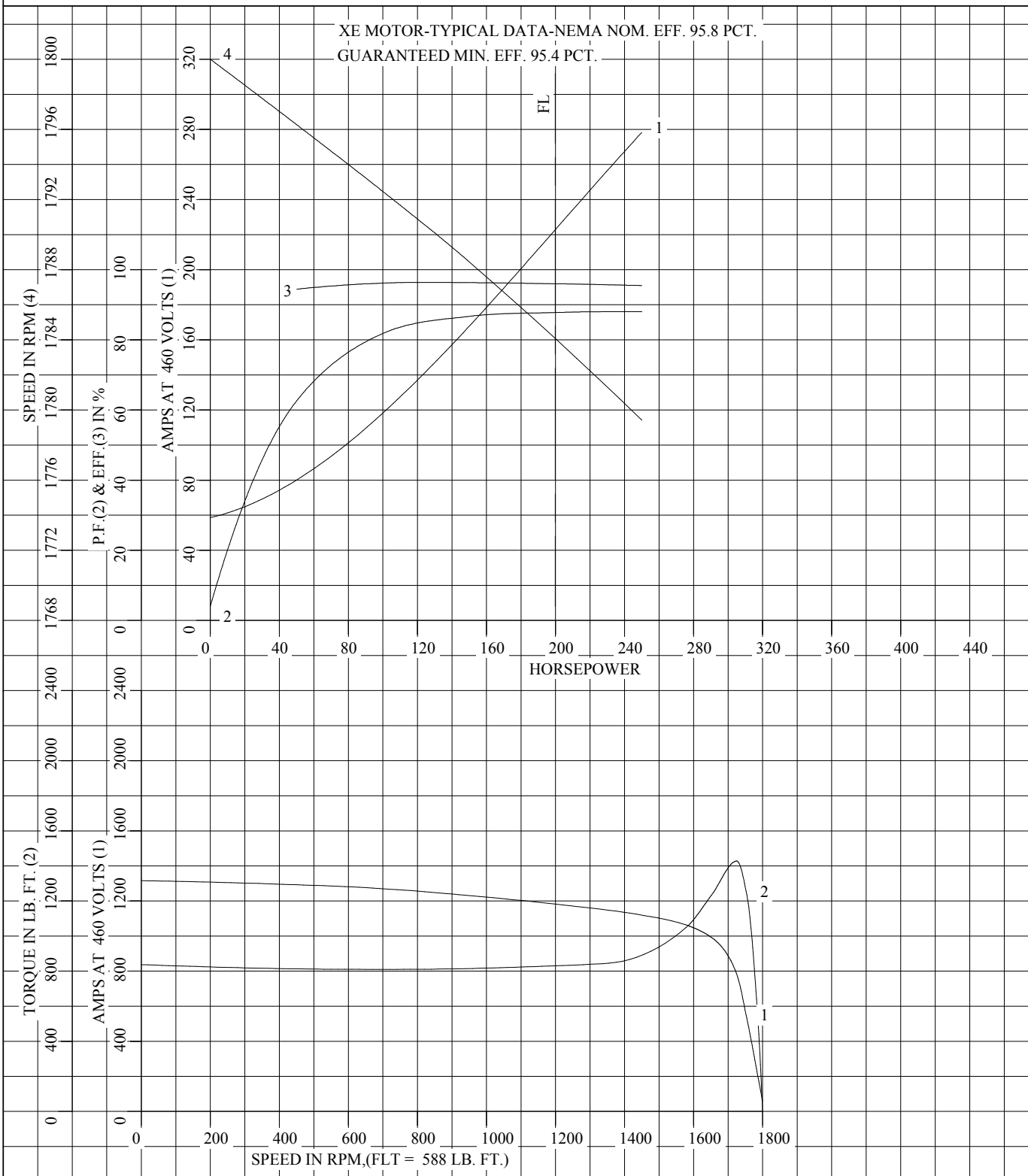
STATOR RES. @ 25 °C .0238

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 599694

OHMS (BETWEEN LINES)



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

BALDOR

DR. BY J.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.

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

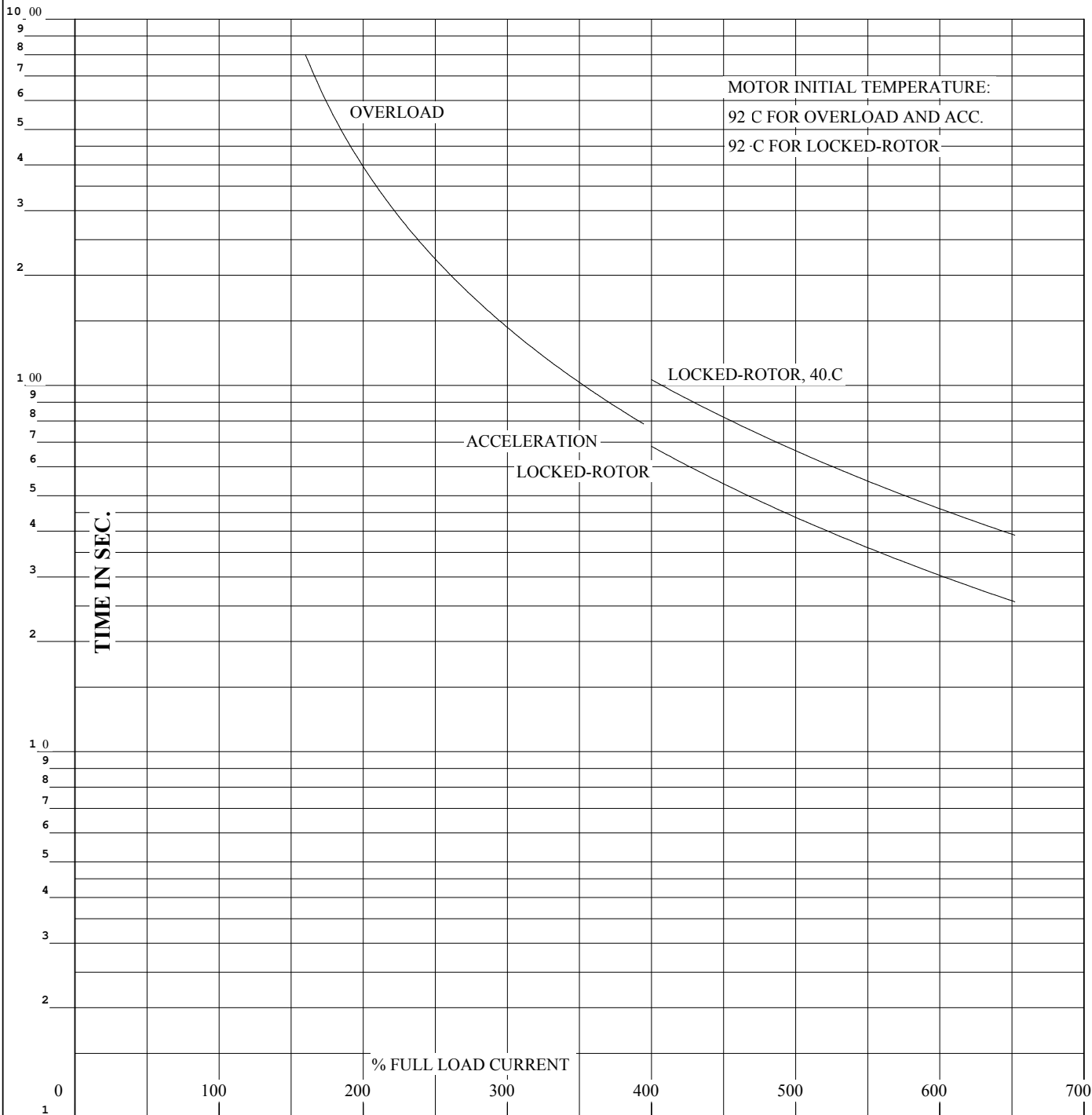
STATOR RES. @ 25 °C .0238

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 599694

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

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.

BALDOR

DR. BY J.J.HARRISON
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 10/19/09

**A-C MOTOR
PERFORMANCE A44WG1483-R001
CURVES**

ISSUE DATE 12/18/10

616508-006

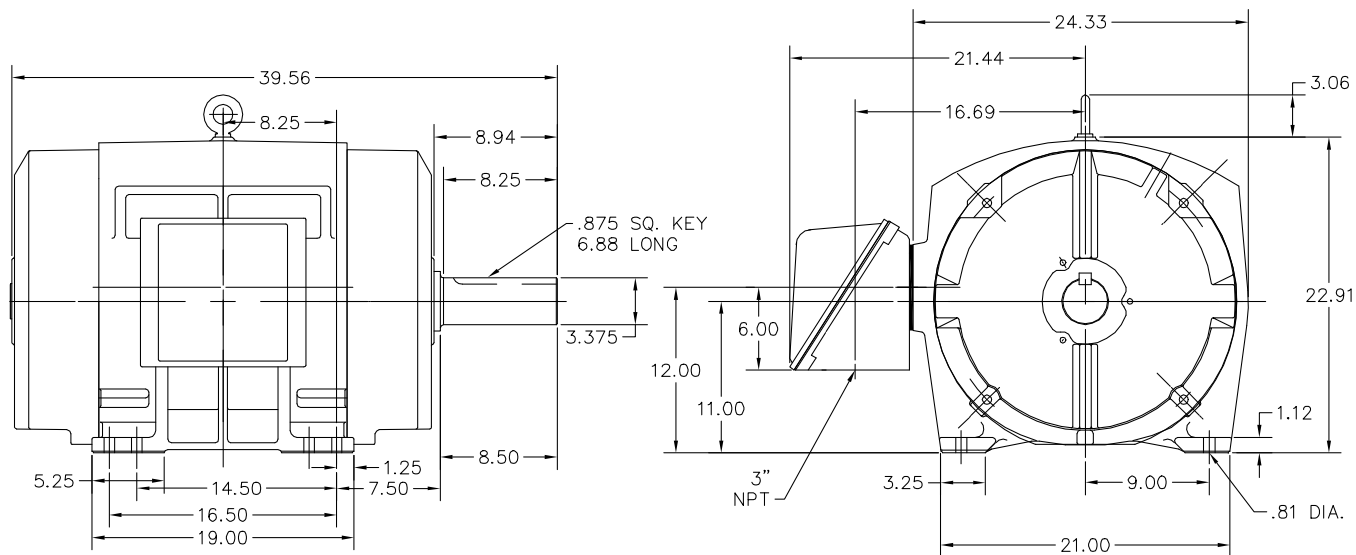
DUTY MASTER ALTERNATING CURRENT MOTORS

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
FILE: \RAG\00010\520	REVISED: 11:22:31 09/08/2010	BY: RAGRA
MTL: --		

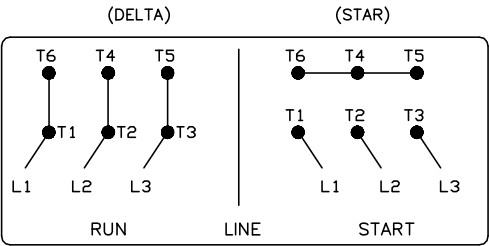
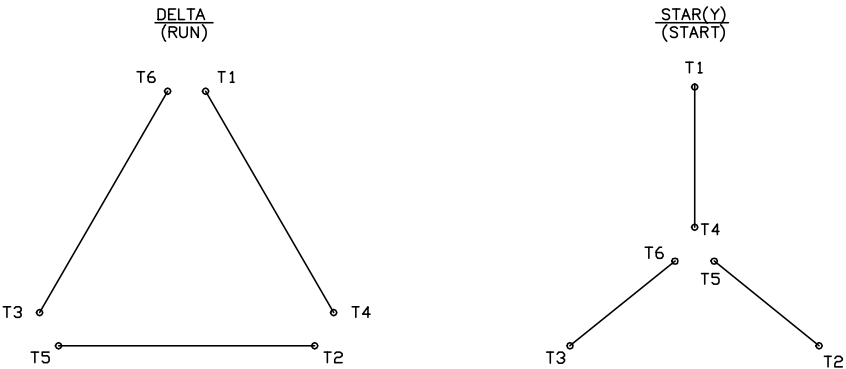
BALDOR
DIM SHT 444T-445T ODP FT
SH 1 of 1

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

416820-008