ABB BALDOR RELIANCE

Customer information packet

EM2583T-4

100HP, 1190RPM, 3PH, 60HZ, 444T, 1860M, OPEN
Class - None
Division - Not Applicable

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Specifications

Enclosure	DP
Frame	444T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	116.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	116.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 4 AWG
Motor Standards	NEMA
Motor Type	A44056M

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1481
Layout	617428-042
Eff. date	12-10-2025
CD Diagram	416820-008
Poles	06
Leads	6#4
Proprietary	False
Created date	10-19-2010

Mounting Arrangement	F1
Number of Poles	6
Overall Length	39.56 IN
Power Factor	85
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	1185 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2377L												
CAT.NO.	EM2583T-4				**SPEC NO.**	P44G1771						
HP	100	**AMPS**	116			**VOLTS**	460			**DESIGN**	B	
FRAME	444T	**RPM**	1185	**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**	85				**NEMA-NOM-EFFICIENCY**	95			
					MAX CORR KVAR	20.0		**GUARANTEED EFFICIENCY**	94.5			
					NEMA NOM/CSA QUOTED EFF							
					MOTOR WEIGHT							

NP2496L
MOBIL POLYREX EM

Parts List

Part number	Description	Quantity
SA207463	SA P44G1771	1.000 ea
RA194730	RA P44G1771	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
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
405851012AF	SPACE	4.000 ea
410700004A	WSHR	1.000 ea
702611001A	BAFFL 440 SUB PAINT	1.000 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
405851012AF	SPACE	4.000 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	WILKOFAST, 789.701, SUPER E PEARL GOLD	0.250 ga
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
415045002A	SLGR	1.000 ea
702611001A	BAFFL 440 SUB PAINT	1.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	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
PK5004A09	BASE 48 X 39-1/4 WITH STACKED 2X4 RUUNER	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	100	P	3/60	1185	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
116	CONT	40/F	1.15	B	F	PROT

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
497758	418143-079-ZE	---	---	.0586

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	42.9	1200	4.08	0
1/4	25.0	50.9	1197	49.8	92.4
2/4	50.0	68.5	1194	72.0	94.9
3/4	75.0	90.7	1190	81.2	95.3
4/4	100	116	1187	85.0	95.1
5/4	125	143	1182	86.4	94.5

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	154	680	700
PULL UP	240	140	620	680
BREAKDOWN	1133	242	1070	398
FULL LOAD	1187	100	443	116

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; NEMA NOM. EFF.= 95.0 PCT.; GUAR. MIN. EFF. = 94.5 PCT.

BALDOR

DR. BY J.J.HARRISON
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 03/18/10

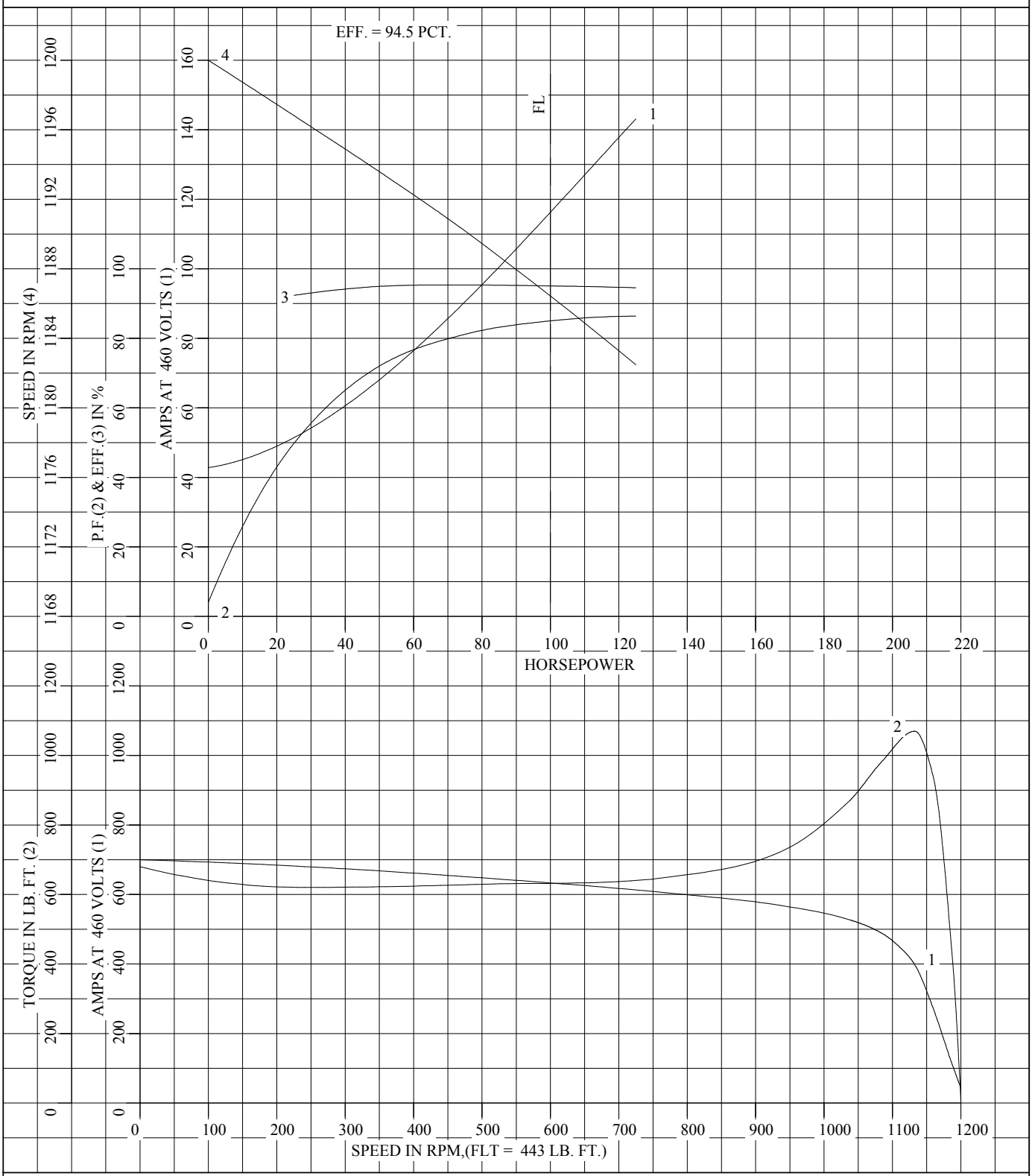
A-C MOTOR PERFORMANCE DATA

A44WG1481-R001
ISSUE DATE 12/18/10

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET EM2583T-4 - 100HP, 1190RPM, 3PH, 60HZ, 444T, 1860M, OPEN

FRAME 444T	RPM 1185	S.F. 1.15	ROTOR 418143-079-ZE
HP 100	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 116	CODE LETTER F	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE PROT	STATOR RES.@ 25 ℃ .0586
	AMB ℃/INSUL 40/F	E/S 497758	OHMS (BETWEEN LINES)



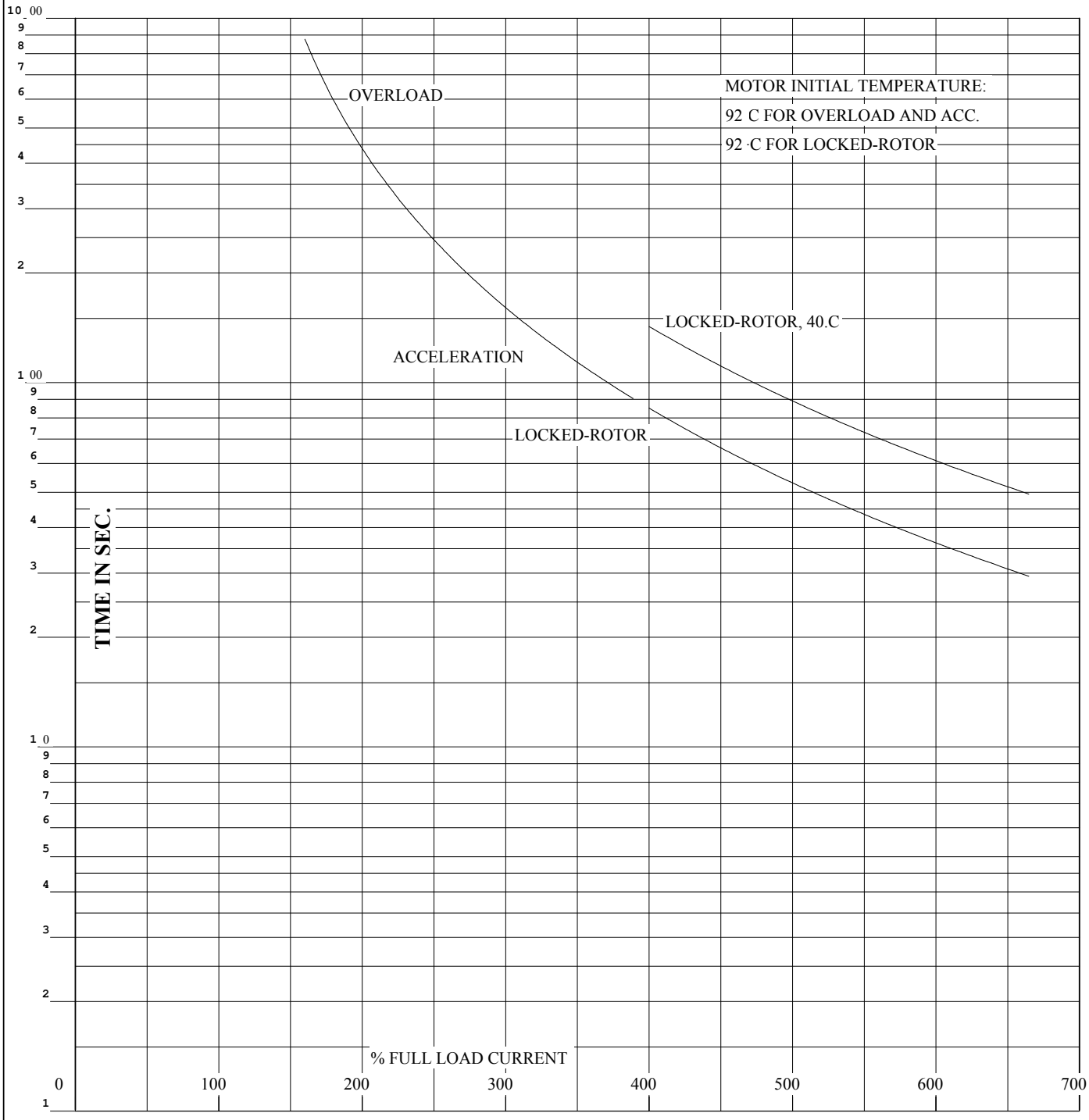
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY	J.J.HARRISON
CK. BY	W.L.SMITH
APP. BY	W.L.SMITH
DATE	03/18/10

A-C MOTOR PERFORMANCE CURVES A44WG1481-R001 ISSUE DATE 12/18/10

REL. S.O.	RPM 1185	S.F. 1.15	ROTOR 418143-079-ZE
FRAME 444T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 100	AMPS 116	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE PROT	STATOR RES.@ 25 °C.0586
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 497758	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: EFF. = 94.5 PCT. ⌈ 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.J.HARRISON
CK. BY	W.L.SMITH
APP. BY	W.L.SMITH
DATE	03/18/10

A-C MOTOR PERFORMANCE CURVES **A44WG1481-R001**

ISSUE DATE 12/18/10

Printed on 12/18/10 5:57 @ psecs-motorer

DUTY MASTER ALTERNATING CURRENT MOTORS

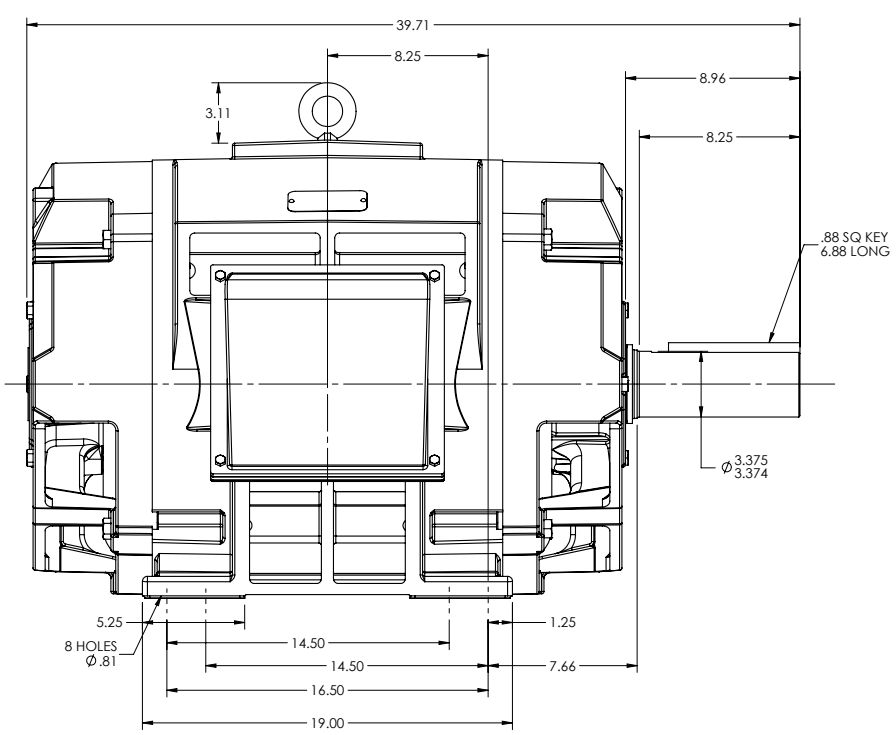
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

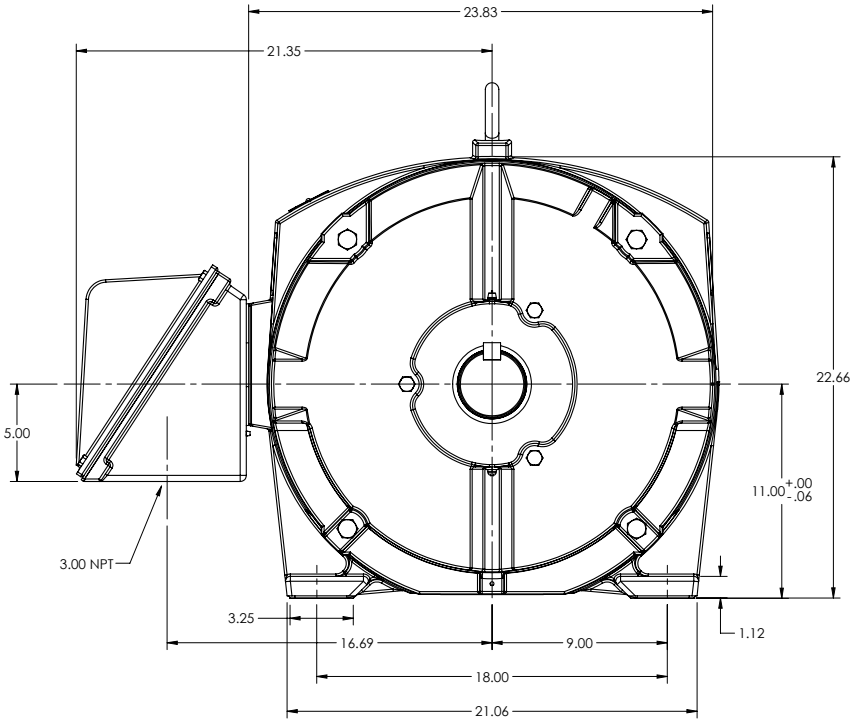
ENCLOSURE: PROTECTED
MOUNTING: FOOT

FRAMES 444T-445T

COOLING: SELF-VENTILATED

617428-042





MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA. AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

WEIGHT (LBS): 444T = 1735
445T = 1775

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO BUS			
REV: -	VERSION: 00	REVISED: 11:30:51 09/10/2013	TDR: 000000816903
MODEL NO. 617428-042			REF:
BY: ENALEM0			B

BALDOR

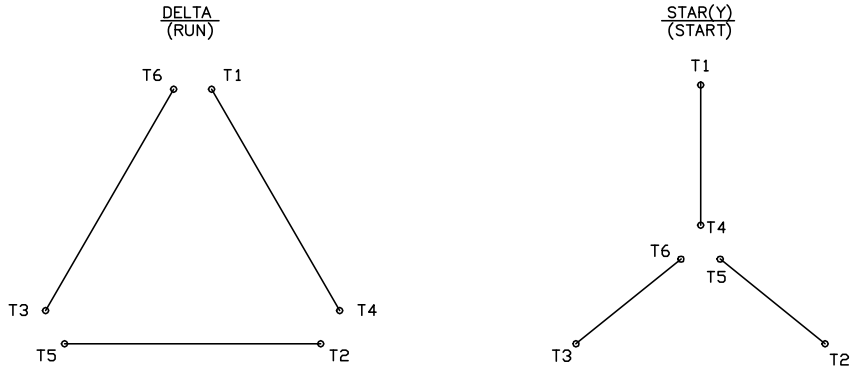
DIM SHEET HOR 444-445T OPEN

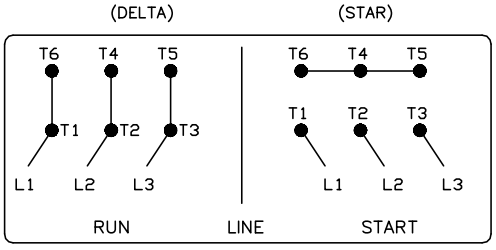
617428-042

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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