ABB BALDOR RELIANCE

Customer information packet

EM2557T-4

125HP, 1190RPM, 3PH, 60HZ, 445T, 1884M, OPEN
Class - None
Division - Not Applicable

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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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	146.000 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	146.0 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	A44062M
Mounting Arrangement	F1

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1482
Layout	617428-042
Eff. date	12-10-2025
CD Diagram	416820-008
Poles	06
Leads	6#4
Proprietary	False
Created date	10-19-2010

Number of Poles	6
Overall Length	39.71 IN
Power Factor	84
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	1185 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

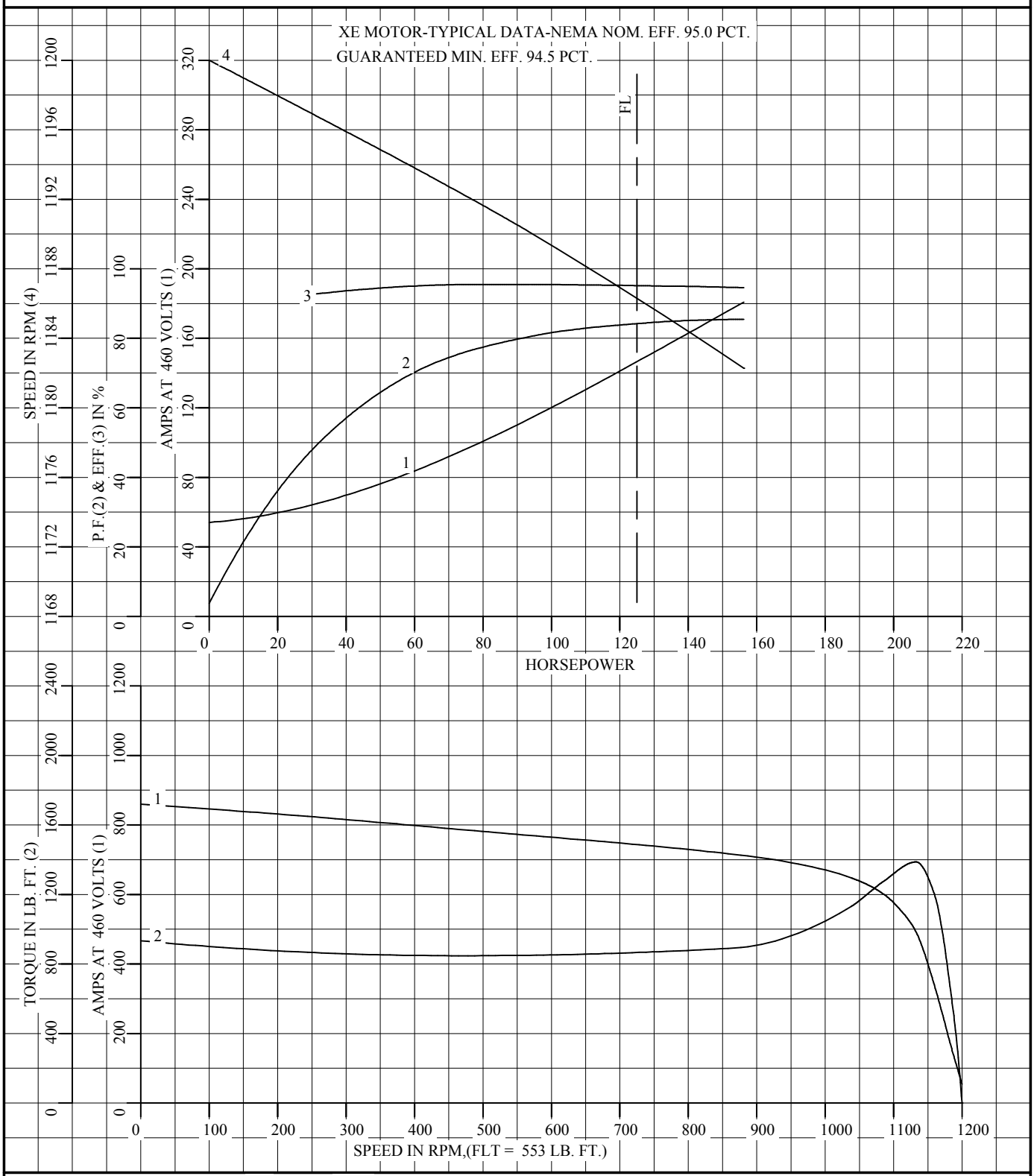
Nameplate

NP2377L												
CAT.NO.	EM2557T-4				**SPEC NO.**	P44G1772						
HP	125	**AMPS**	146			**VOLTS**	460			**DESIGN**	B	
FRAME	445T	**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**	84			**NEMA-NOM-EFFICIENCY**	95				
					MAX CORR KVAR	30.0	**GUARANTEED EFFICIENCY**	94.5				
					NEMA NOM/CSA QUOTED EFF							
					MOTOR WEIGHT							

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET EM2557T-4 - 125HP, 1190RPM, 3PH, 60HZ, 445T, 1884M, OPEN

FRAME 445T	RPM 1185	S.F. 1.15	ROTOR 418143-79-XE
HP 125	VOLTS 460	NEMA DESIGN B	TEST S.O. ---
TYPE P	AMPS 146	CODE LETTER F	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE PRXE	STATOR RES.@ 25 ℃ .0466
	AMB ℃/INSUL 40/F	E/S 498798	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
A MEMBER OF THE ABB GROUP

DR. BY	J.J.HARRISON
CK. BY	W.L.SMITH
APP. BY	W.L.SMITH
DATE	04/06/11

A-C MOTOR PERFORMANCE CURVES A44WG1482-R001 ISSUE DATE 04/06/11

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	125	P	3/60	1185	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
498798	418143-79-XE	---	---	.0466

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	54.2	1200	3.77	0
1/4	31.3	64.2	1197	49.2	92.8
2/4	62.5	86.1	1194	71.5	95.2
3/4	93.7	114	1190	80.5	95.5
4/4	125	146	1186	84.2	95.2
5/4	156	181	1182	85.4	94.6

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	169	934	860
PULL UP	468	153	847	787
BREAKDOWN	1133	251	1387	491
FULL LOAD	1186	100	553	146

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

REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.
GUARANTEED MIN. EFF. 94.5 PCT.

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DATE 04/06/11

A-C MOTOR PERFORMANCE DATA

A44WG1482-R001
ISSUE DATE 04/06/11

617428-042

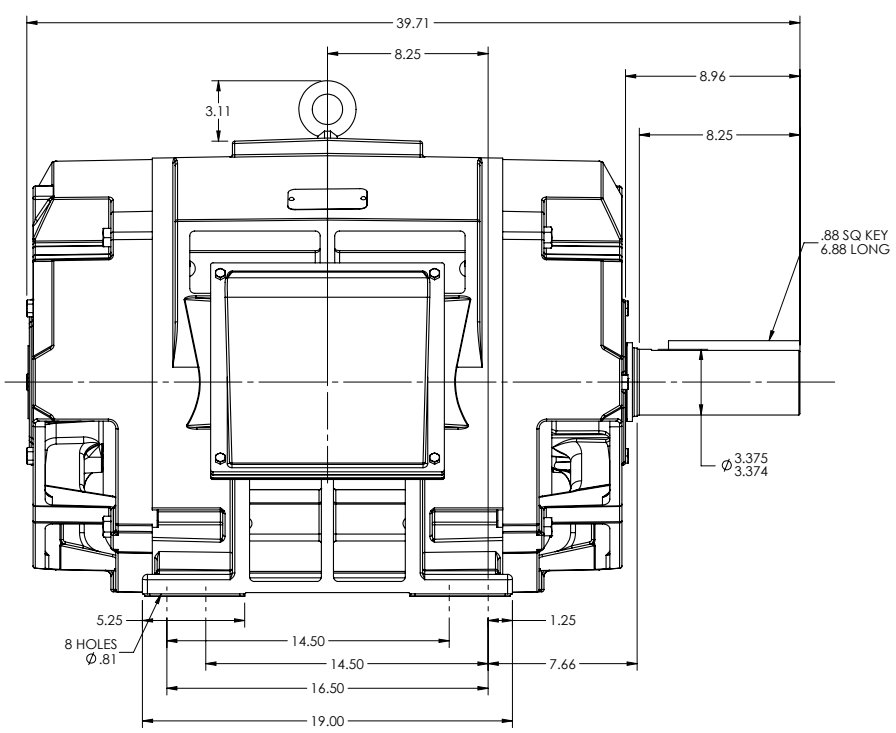
DUTY MASTER ALTERNATING CURRENT MOTORS

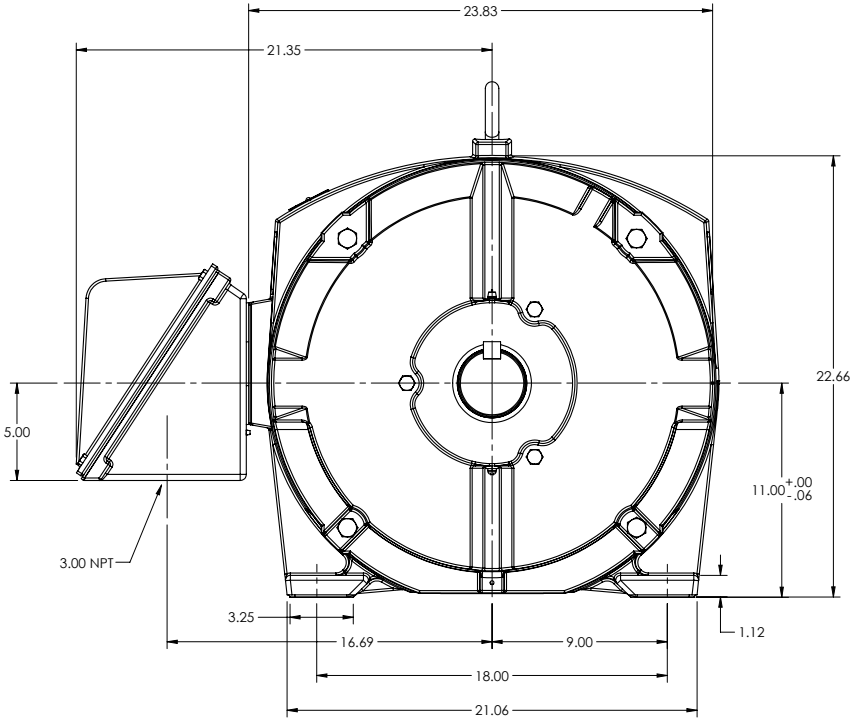
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: PROTECTED
MOUNTING: FOOT

FRAMES 444T-445T

COOLING: SELF-VENTILATED





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

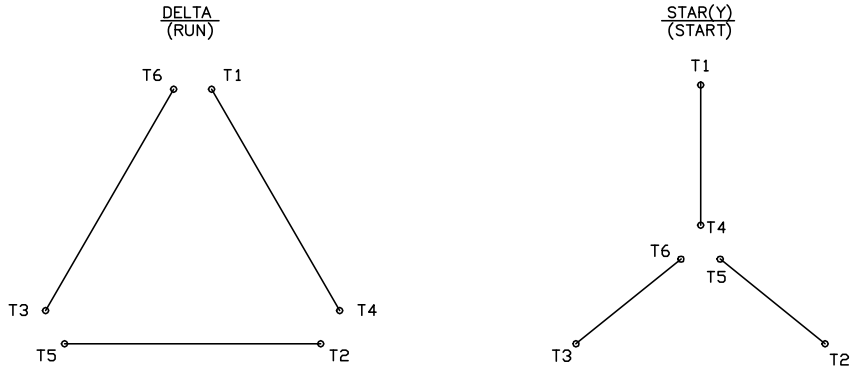
DIM SHEET HOR 444-445T OPEN

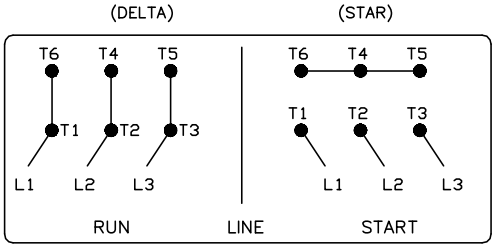
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416820–008

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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