

# ABB BALDOR RELIANCE III

---

## Customer information packet

EM2557T-4

125HP, 1190RPM, 3PH, 60HZ, 445T, 1884M, OPEN

Class - None

Division - Not Applicable

**Specifications**

<b>Enclosure</b>	DP
<b>Frame</b>	445T
<b>Frame Material</b>	Iron
<b>Frequency</b>	60.00 Hz
<b>Haz Area Class and Group</b>	None
<b>Haz Area Division</b>	Not Applicable
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	125.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	1200 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	460.0 V @ 60 HZ
<b>Agency Approvals</b>	CURUSEEV
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Current @ Voltage</b>	146.000 A @ 460.0 V
<b>Design Code</b>	B
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	95.0 %
<b>Feedback Device</b>	NO FEEDBACK
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	146.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	F
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Motor Lead Quantity/Wire Size</b>	6 @ 4 AWG
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	A44062M
<b>Mounting Arrangement</b>	F1

**Part Detail**

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

<b>Number of Poles</b>	6
<b>Overall Length</b>	39.71 IN
<b>Power Factor</b>	84
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	3.375 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1185 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Wye Start - Delta Run
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None

**Nameplate**

**NP2377L**

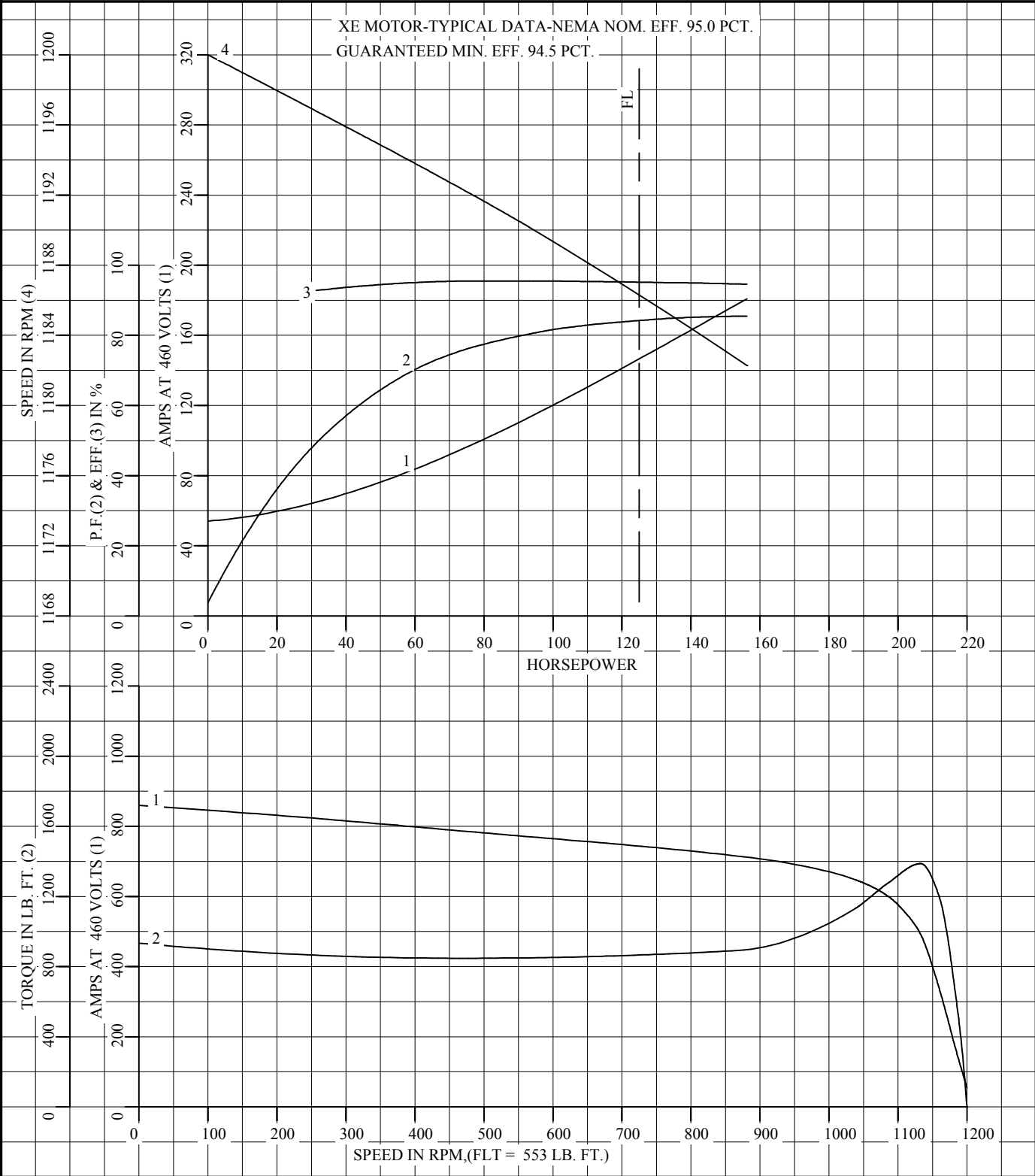
<b>CAT.NO.</b>	EM2557T-4	<b>SPEC NO.</b>	P44G1772						
<b>HP</b>	125	<b>AMPS</b>	146	<b>VOLTS</b>	460	<b>DESIGN</b>	B		
<b>FRAME</b>	445T	<b>RPM</b>	1185	<b>HZ</b>	60	<b>AMB</b>	40	<b>SF</b>	1.15
<b>DRIVE END BEARING</b>	90BC03J30X	<b>PHASE</b>	3	<b>DUTY</b>	CONT	<b>INSUL.CLASS</b>	F		
<b>OPP D.E. BEARING</b>	90BC03J30X	<b>TYPE</b>	P	<b>ENCL</b>	DP	<b>CODE</b>	F		
<b>SER.NO.</b>		<b>POWER FACTOR</b>	84	<b>NEMA-NOM-EFFICIENCY</b>	95				
		<b>MAX CORR KVAR</b>	30.0	<b>GUARANTEED EFFICIENCY</b>	94.5				
		<b>NEMA NOM/CSA QUOTED EFF</b>							
		<b>MOTOR WEIGHT</b>							

FRAME 445T  
HP 125  
TYPE P  
PHASE/HERTZ 3/60

VOLTS 460  
AMPS 146  
DUTY CONT  
AMB °C/INSUL 40/F

NEMA DESIGN B  
CODE LETTER F  
ENCLOSURE PRXE  
E/S 498798

TEST S.O. ---  
TEST DATE ---  
STATOR RES. @ 25 °C .0466  
OHMS (BETWEEN LINES)




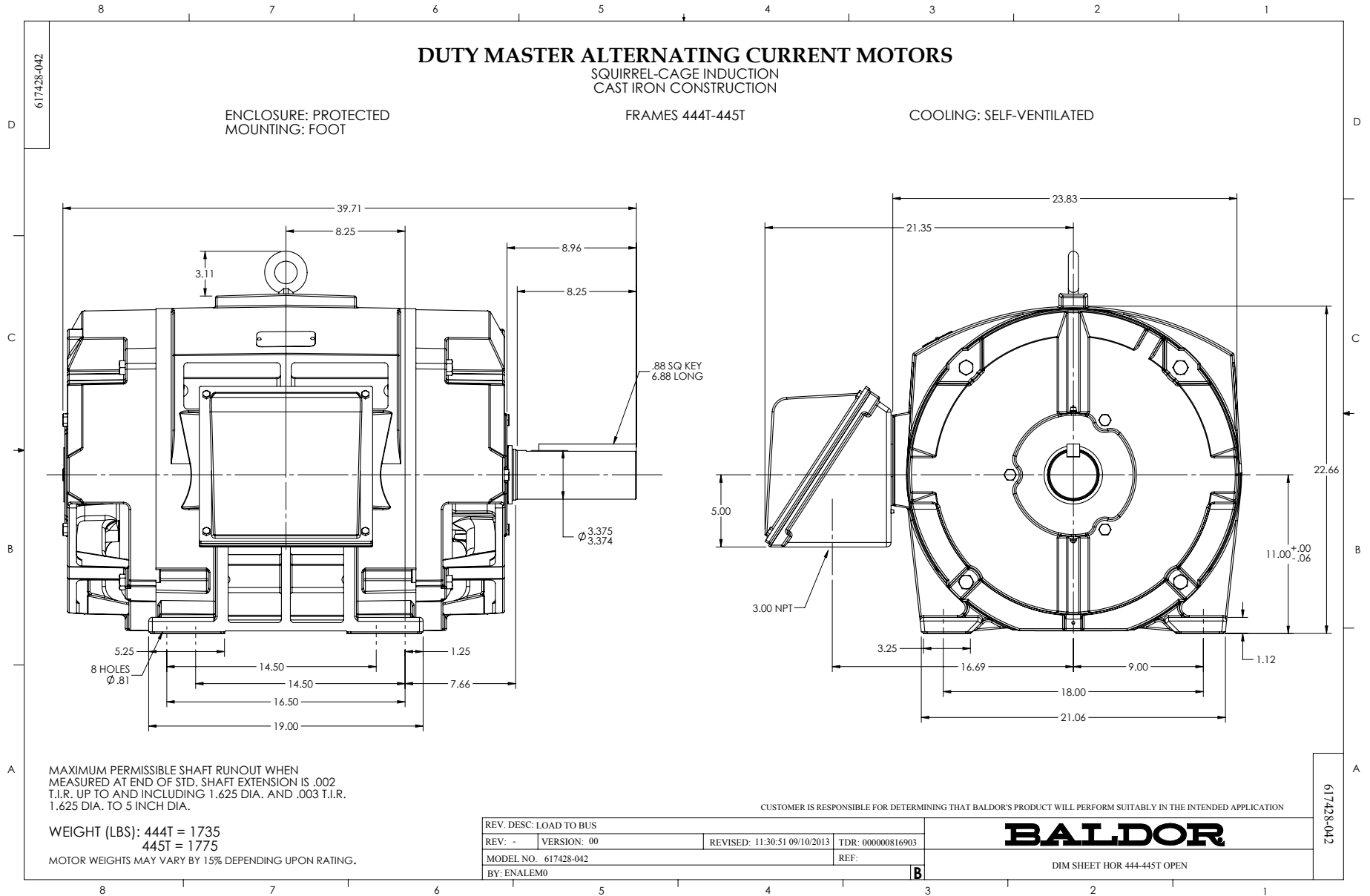
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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		
<b>PERFORMANCE</b>						
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	
<b>SPEED TORQUE</b>						
		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	
<p>AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE</p> <p>REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT. GUARANTEED MIN. EFF. 94.5 PCT.</p>						
		DR. BY <u>J.J.HARRISON</u>		<b>A-C MOTOR PERFORMANCE A44WG1482-R001 DATA</b>		
		CK. BY <u>W.L.SMITH</u>				
		APP. BY <u>W.L.SMITH</u>				
		DATE <u>04/06/11</u>				

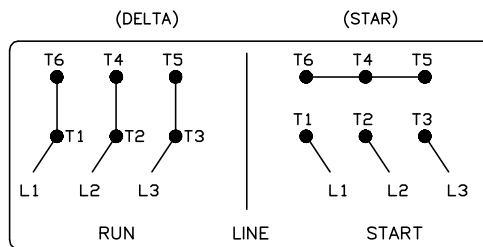
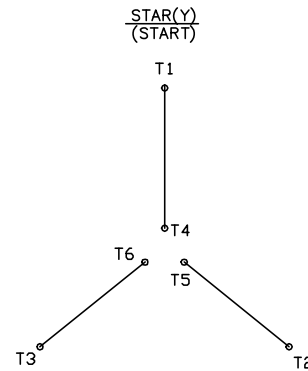
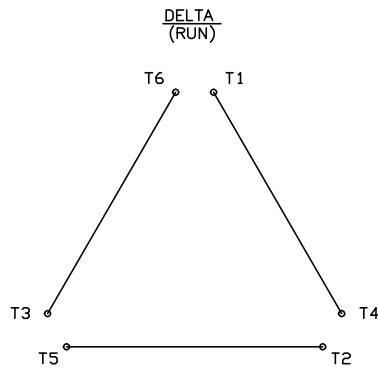


416820-008

# 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: 00000847713

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