

ABB BALDOR RELIANCE III

Customer information packet

EM25694T-4

300HP, 1785RPM, 3PH, 60HZ, 449T, DP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	449T
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	300.000 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	331.000 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	331.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44112M

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4249
Layout	604989-635
Eff. date	07-18-2022
CD Diagram	416820-008
Poles	04
Leads	6#2/0
Proprietary	False
Created date	04-29-2015

Mounting Arrangement	F1
Number of Poles	4
Overall Length	48.13 IN
Power Factor	88
Product Family	General Industrial
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

NP2496L	
MOBIL POLYREX EM	

NP2349L

SPEC NO.	A44-7189-4249			CAT.NO.	EM25694T-4				FRAME	449T	
HP	300	VOLTS	460		PHASE	3	DESIGN	B	TYPE	P	
RPM	1785	AMPS	331		HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	90BC03J30X		DUTY	CONT	INSUL.CLASS			F			
OPP D.E. BEARING	90BC03J30X		ENCL	DP	CODE	G					
SER.NO.				POWER FACTOR		88	NEMA-NOM-EFFICIENCY				95.8
						MAX CORR KVAR		59.9	GUARANTEED EFFICIENCY		95
						NEMA NOM/CSA QUOTED EFF					
										MOTOR WEIGHT	2151

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	300	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
331	CONT	40/F	1.15	B	G	ODP
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833139	418143042ZEE	---	---	.0152		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	83.6	1800	4.22	0	
1/4	75.1	115	1796	64.7	94.6	
2/4	150	176	1792	82.7	96.2	
3/4	225	251	1787	87.3	96.2	
4/4	300	331	1783	88.5	95.9	
5/4	375	415	1777	88.7	95.3	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	148	1308	2111		
PULL UP	1360	117	1032	1764		
BREAKDOWN	1724	244	2156	1114		
FULL LOAD	1783	100	883	331		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: CALCULATED DATA XE MOTOR-NEMA NOM. EFF. 95.8 PCT.						
		DR. BY G. R. WEBB CK. BY W. L. SMITH APP. BY W. L. SMITH DATE 04/29/15		A-C MOTOR PERFORMANCE DATA A44WG4249-R001 ISSUE DATE 04/29/15		

REL S.O.

RPM 1785

S.F. 1.15

ROTOR 418143042ZEE

FRAME 449T

VOLTS 460

NEMA DESIGN B

TEST S.O. CALCULATED DATA

HP 300

AMPS 331

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE ODP

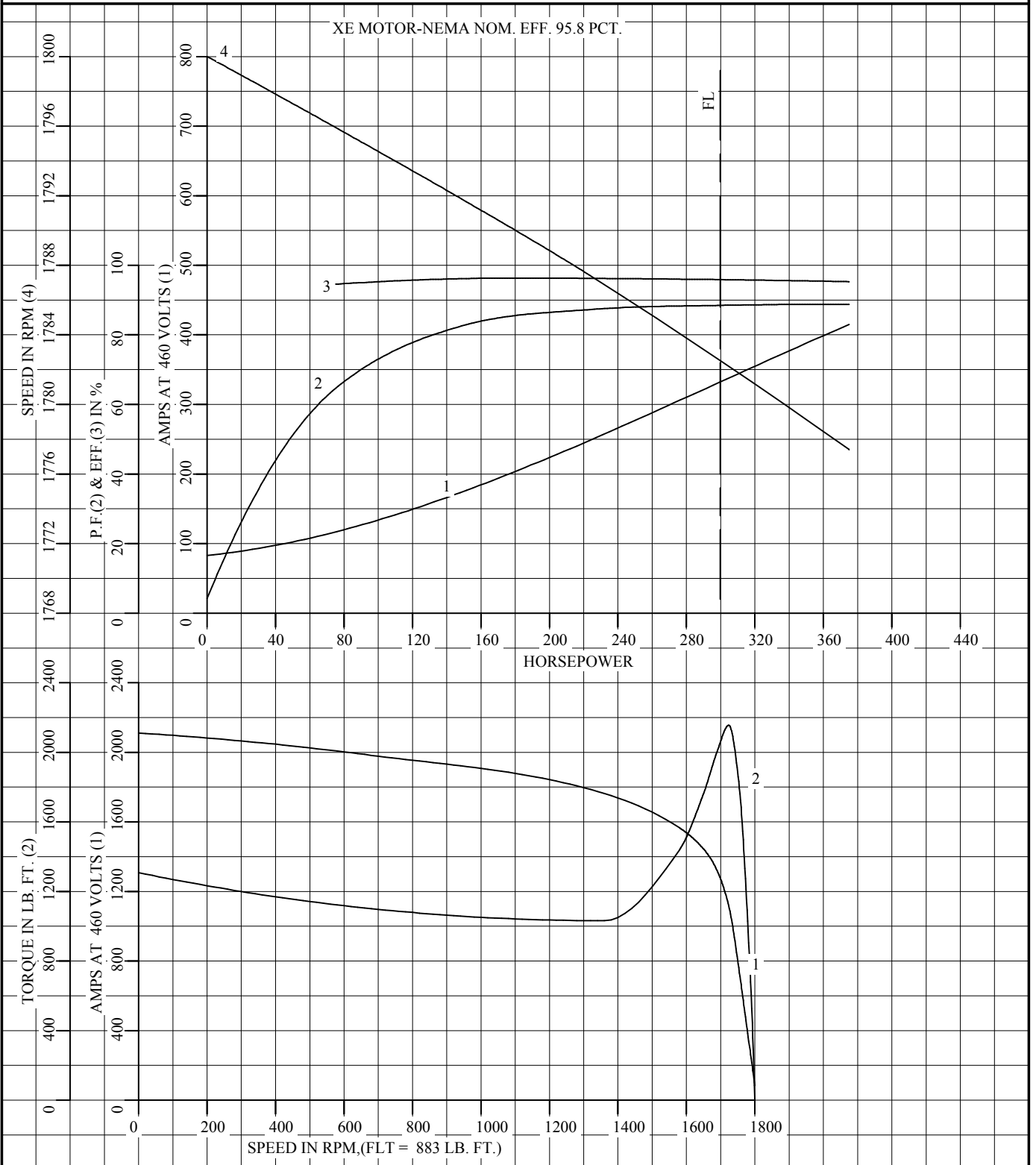
STATOR RES. @ 25 °C .0152

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 833139

OHMS (BETWEEN LINES)



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

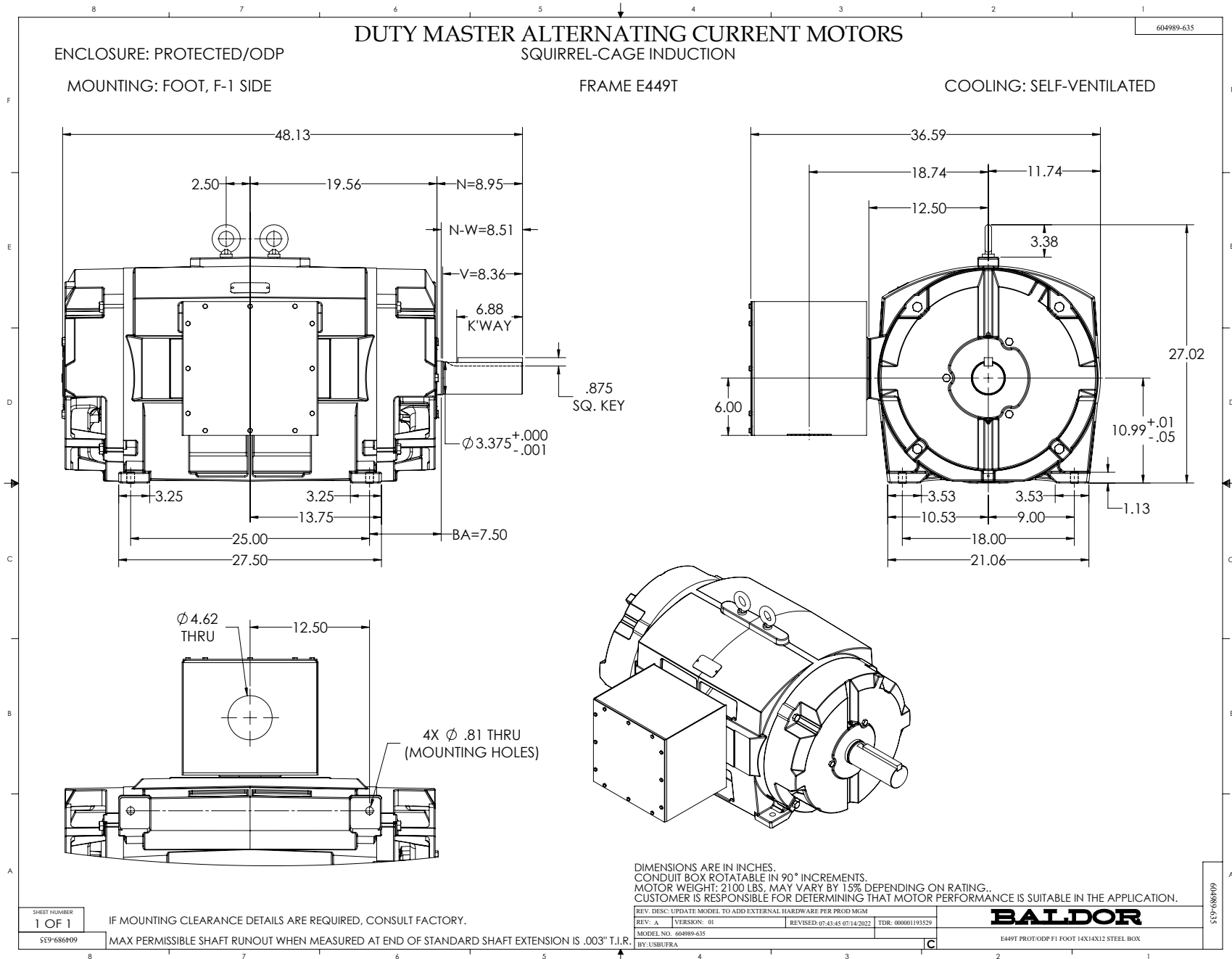
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 04/29/15

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG4249-R001

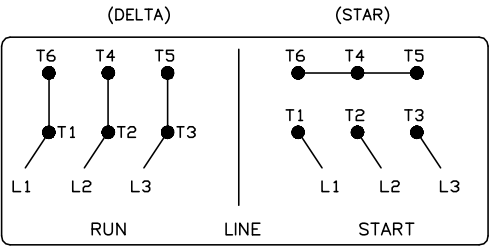
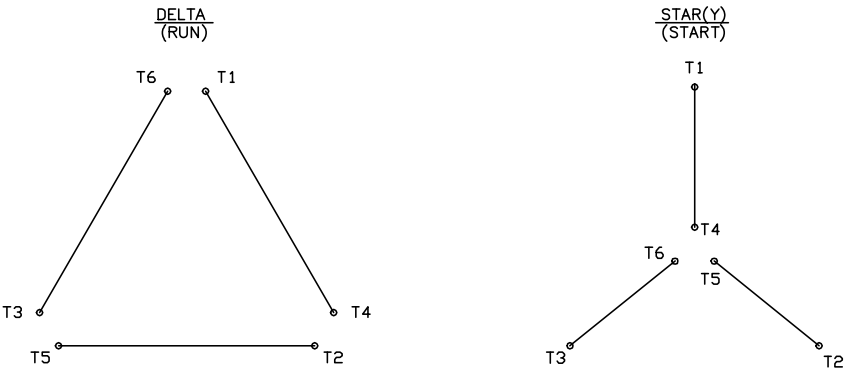
ISSUE DATE 04/29/15 Page 7 of 9



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