

ABB BALDOR RELIANCE III

Customer information packet

EM2568T-4

300HP/3550RPM/3PH/OPEN/NEMA 445TS

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	445TS
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	3600 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	339.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	339.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 4 AWG
Motor Standards	NEMA
Motor Type	A44068M

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2770
Layout	611750-592
Eff. date	01-08-2025
CD Diagram	416820-008
Poles	02
Leads	6#4 (02 per group)
Proprietary	False
Created date	04-24-2015

Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.88 IN
Power Factor	87
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3565 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.	A44-7178-2770			CAT.NO.	EM2568T-4				FRAME	445TS			
HP	300	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P				
RPM	3565	AMPS	339	HZ	60	AMB	40	SF	1.15				
DRIVE END BEARING	65BC03J30X		DUTY	CONT	INSUL.CLASS		F						
OPP D.E. BEARING	65BC03J30X		ENCL	DP	CODE	F							
SER.NO.				POWER FACTOR	87	NEMA-NOM-EFFICIENCY				95.4			
					MAX CORR KVAR	45	GUARANTEED EFFICIENCY	94.5					
					NEMA NOM/CSA QUOTED EFF								
										MOTOR WEIGHT			

Parts List

Part number	Description	Quantity
SA299621	SA A44-7178-2770	1.000 ea
RA286650	RA A44-7178-2770	1.000 ea
421948044	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2349L	SUPER-E ,SS, CURUS EEV, CC, LASER	1.000 ea
702611001A	BAFFL 440 SUB PAINT	1.000 ea
089438082A	BRKT 440 089438081WCB	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 ea
410700004F	WSHR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
032018006AK	HHCS 1/4-20X3/4L PLATED	4.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
032018006AK	HHCS 1/4-20X3/4L PLATED	4.000 ea
089438082A	BRKT 440 089438081WCB	1.000 ea
702611001A	BAFFL 440 SUB PAINT	1.000 ea
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
406056008A	GASKET, TERBD 440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025Y17	WILKOFAS, 789.701, SUPER E PEARL GOLD	0.438 ga
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea

048897010DG	PLUG,ODE BRKT - 360	1.000 ea
406055001E	GRFTG - 440	1.000 ea
702616012T	CONDUIT BOX	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180024HA	KEY 5/8X5/8X3 L	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

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					EM2568T-4 - 300HP/3550RPM/3PH/OPEN/NEMA 445TS	
		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS	
		445T	300	P	3/60	3565	460	
AMPS		DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE	
339		CONT	40/F	1.15	B	F	ODP	
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
498511	418143013HE	---	---	.0147				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR		% EFFICIENCY		
NO LOAD	0	94.3	3600	5.64		0		
1/4	75.1	125	3591	60.7		92.3		
2/4	150	186	3582	79.3		95.0		
3/4	225	258	3573	85.4		95.5		
4/4	300	339	3563	86.9		95.4		
5/4	375	422	3553	87.6		95.0		
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.		AMPERES		
LOCKED ROTOR		0	180	796		1908		
PULL UP		1800	160	709		1677		
BREAKDOWN		3430	231	1021		1061		
FULL LOAD		3563	100	442		339		
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.								
XE MOTOR - TYPICAL DATA - NEMA NOM. EFF. 95.4 PCT GUARANTEED MIN. EFF. 94.5 PCT								
		DRAWN BY: <u>A. T. LONG</u> CHECKED BY: <u>W. L. SMITH</u> APPROVED BY: <u>D. M. BYRD</u> DATE: <u>02/09/01</u>		AC MOTOR PERFORMANCE DATA		A44WG2770-R001 DATE ISSUED 02/09/01		

FRAME 445T

RPM 3565

S.F. 1.15

ROTOR 418143013HE

HP 300

VOLTS 460

NEMA DESIGN B

TEST S.O. ---

TYPE P

AMPS 339

CODE LETTER F

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

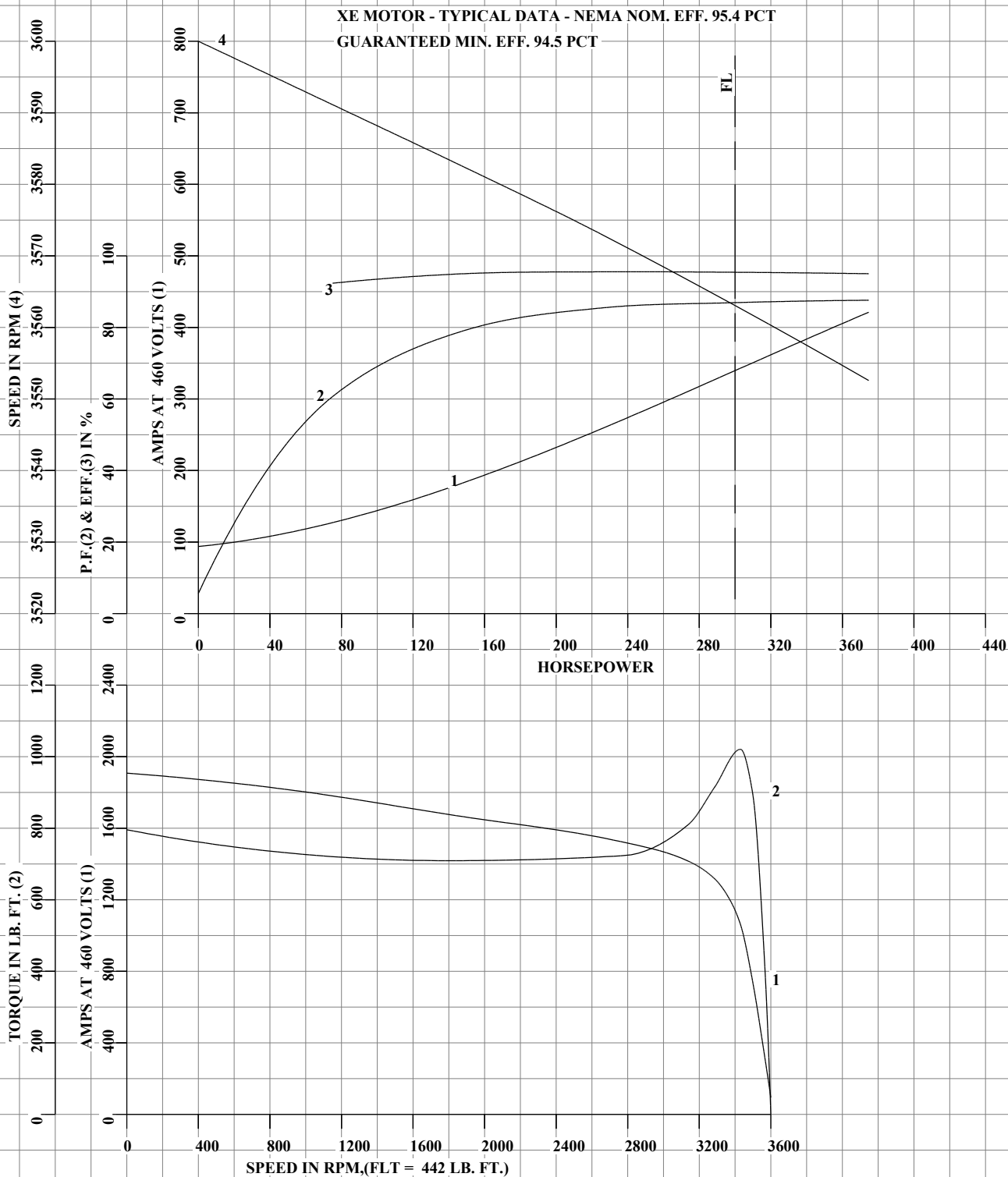
ENCLOSURE ODP

STATOR RES. @ 25°C .0147

AMB °C / INSUL 40/F

E/S 498511

OHMS (BETWEEN LINES)



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



DRAWN BY: A. T. LONG
CHECKED BY: W. L. SMITH
APPROVED BY: D. M. BYRD
DATE: 02/09/01

AC MOTOR
PERFORMANCE
DATA

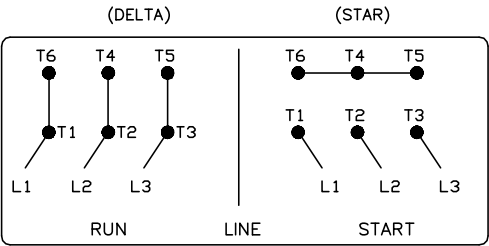
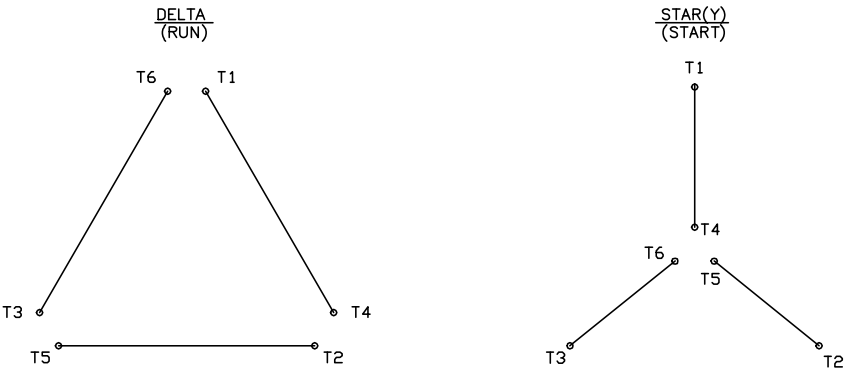
A44WG2770-R001

ISSUE DATE 02/09/01

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