

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						

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

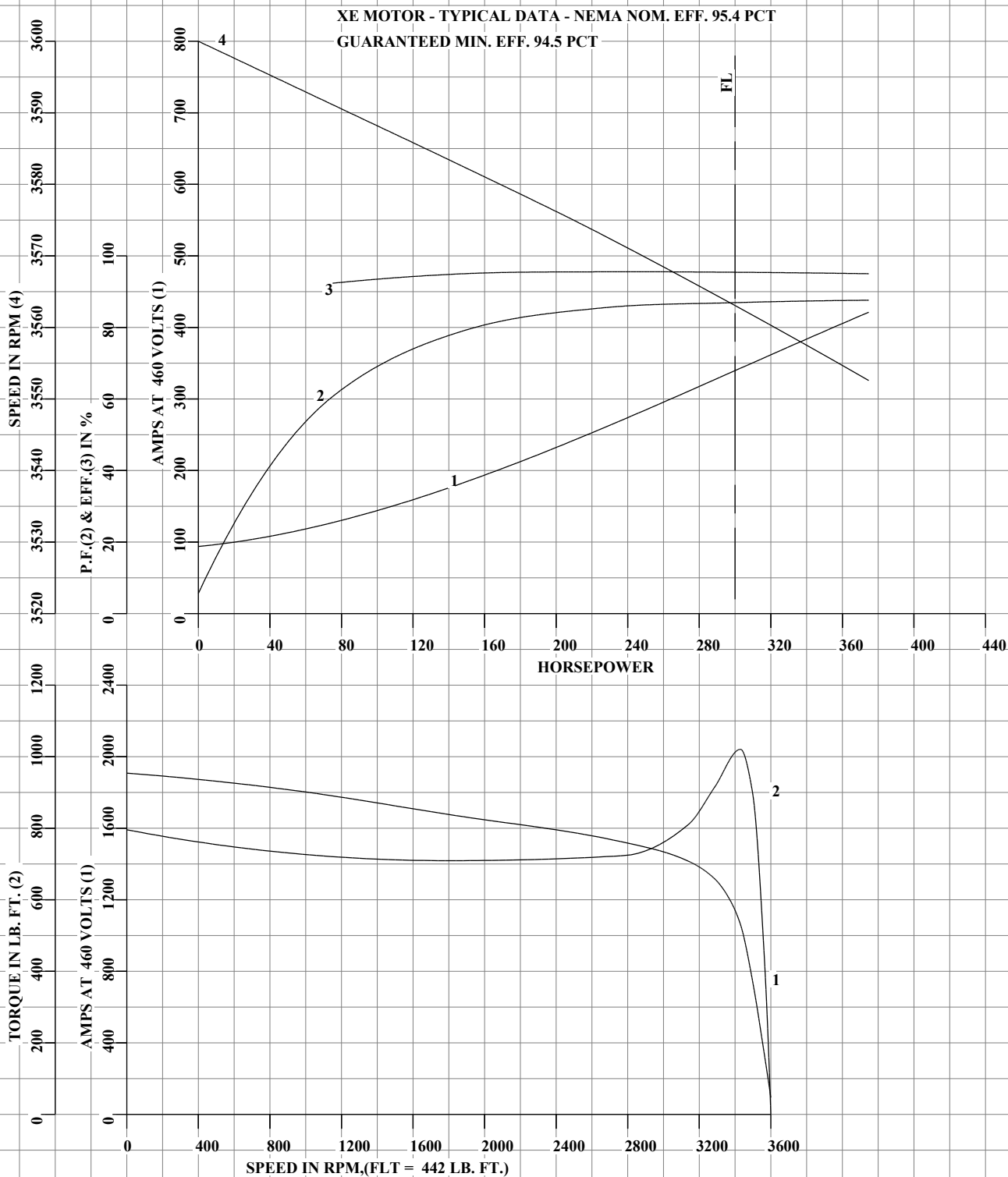
ENCLOSURE ODP

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

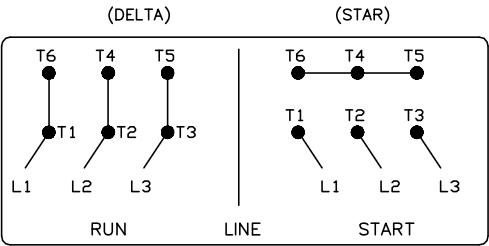
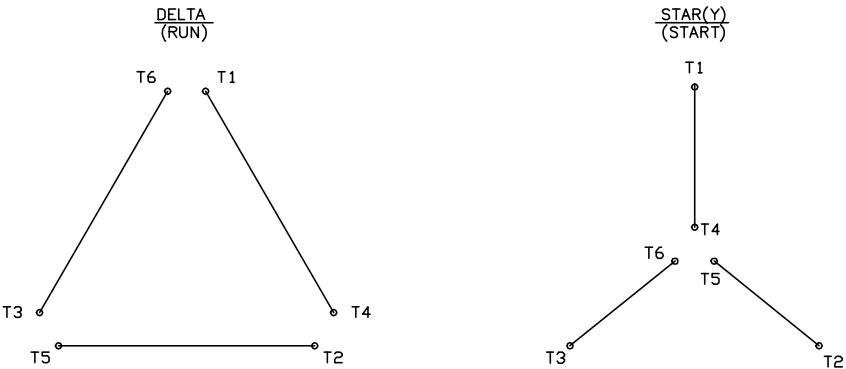
A44WG2770-R001

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