

ABB BALDOR RELIANCE III

Customer information packet

EM2571T-4

350HP, 3570RPM, 3PH, 60HZ, 449TS, DP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	449TS
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	350.000 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	380.000 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	380.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	F
Motor Lead Quantity/Wire Size	12 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44112M
Mounting Arrangement	F1

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4252
Layout	604989-595
Eff. date	07-18-2022
CD Diagram	416820-008
Poles	02
Leads	6#2 (02 per group)
Proprietary	False
Created date	05-06-2015

Number of Poles	2
Overall Length	44.31 IN
Power Factor	90
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	3570 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.	A44-7216-4252	CAT.NO.	EM2571T-4	FRAME	449TS
HP	350	VOLTS	460	PHASE	3
RPM	3570	AMPS	380	DESIGN	B
DRIVE END BEARING	65BC03J30X	DUTY	CONT	TYPE	P
OPP D.E. BEARING	65BC03J30X	ENCL	DP	INSUL.CLASS	F
SER.NO.		POWER FACTOR	90	NEMA-NOM-EFFICIENCY	95.4
				MAX CORR KVAR	59.9
				GUARANTEED EFFICIENCY	94.5
				NEMA NOM/CSA QUOTED EFF	
				MOTOR WEIGHT	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449TS	350	P	3/60	3570	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
380	CONT	40/F	1.15	B	F	ODP
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
444252	418143016KE	---	---	.0103		

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	83.6	3600	6.42	0
1/4	87.6	122	3593	72.3	93.3
2/4	175	194	3586	88.6	95.5
3/4	262	281	3579	91.2	95.8
4/4	350	380	3571	90.2	95.6
5/4	438	490	3562	87.9	95.2

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	201	1033	2226
PULL UP	2695	150	773	1765
BREAKDOWN	3472	247	1270	1157
FULL LOAD	3571	100	515	380

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

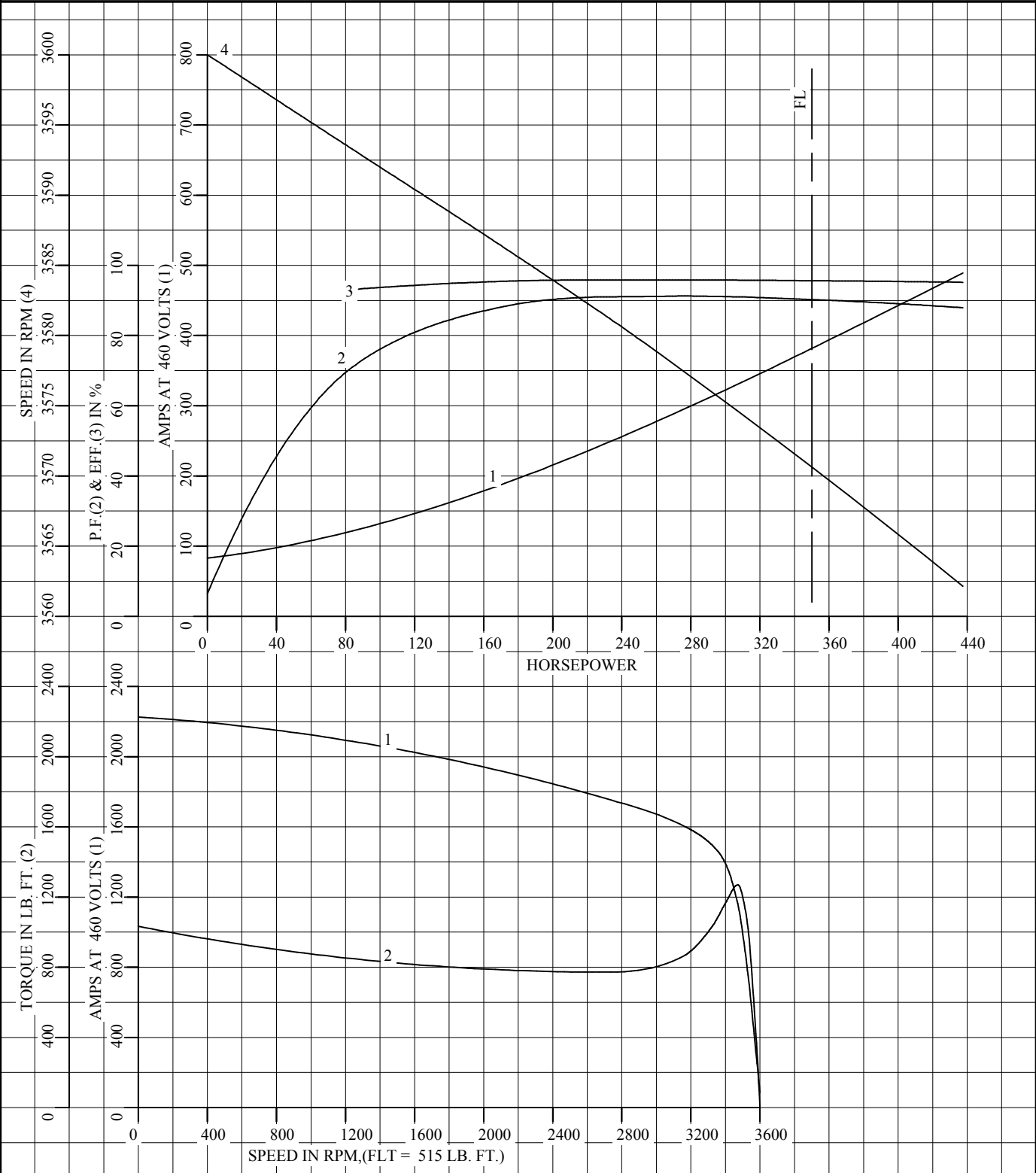
REMARKS: CALCULATED DATA



DR. BY G. R. WEBB
 CK. BY W. L. SMITH
 APP. BY W. L. SMITH
 DATE 05/06/15

**A-C MOTOR
 PERFORMANCE DATA** A44WG4252-R001
 ISSUE DATE 05/06/15

REL S.O.	RPM 3570	S.F. 1.15	ROTOR 418143016KE
FRAME 449TS	VOLTS 460	NEMA DESIGN B	TEST S.O. CALCULATED DATA
HP 350	AMPS 380	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE ODP	STATOR RES. @ 25 °C .0103
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 444252	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 G. R. WEBB
 CK. BY W. L. SMITH
 APP. BY W. L. SMITH
 DATE 05/06/15

**A-C MOTOR
 PERFORMANCE CURVES** A44WG4252-R001
 ISSUE DATE 05/06/15

ENCLOSURE: OPEN DRIP-PROOF

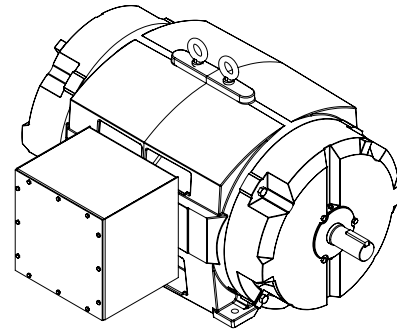
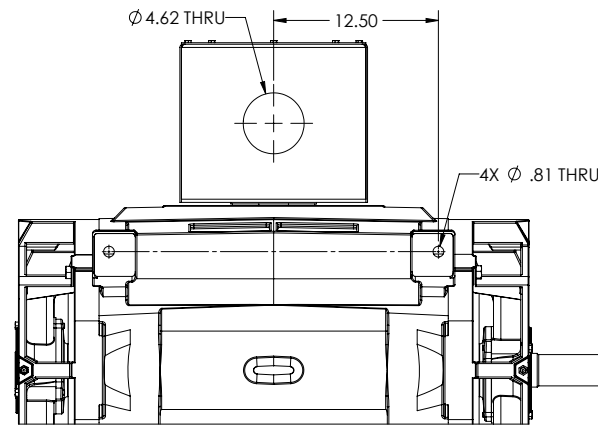
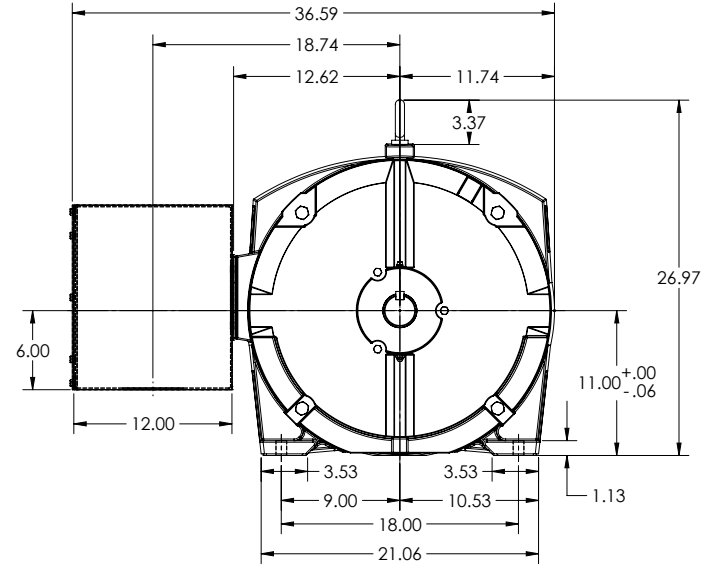
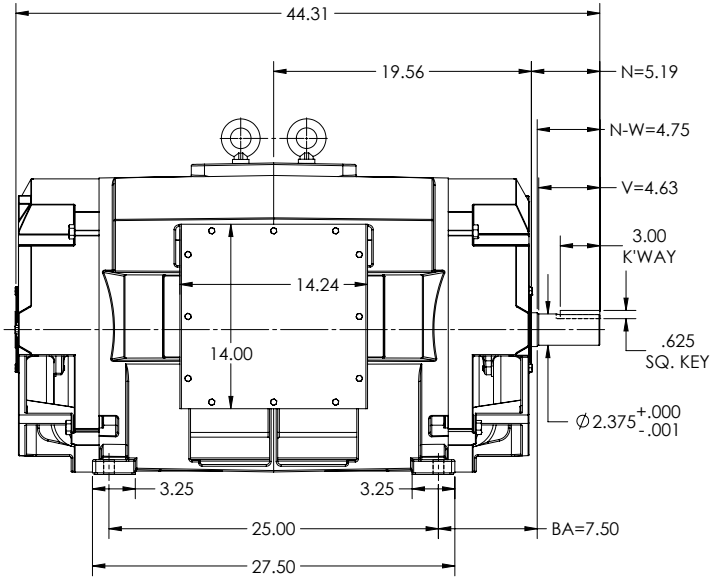
MOUNTING: FOOT, F-1

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

E449TS FRAME MOUNTING

COOLING: NON-VENTILATED

14X14X12 STEEL C/BOX



DIMENSIONS ARE IN INCHES.
WEIGHT (LBS) 2100, MAY VARY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER
1 OF 1

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

565-686F09

MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003 T.I.R.

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: A	VERSION: 01	REVISED: 06-25-35 07/14/2022	TDR: 000001193529
MODEL NO. 604989-595			
BY: USBUFA			

BALDOR

E449TS TEAO/ODP F1 FOOT FABRICATED 14X14X12 STEEL BOX

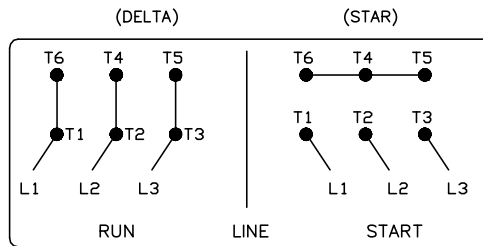
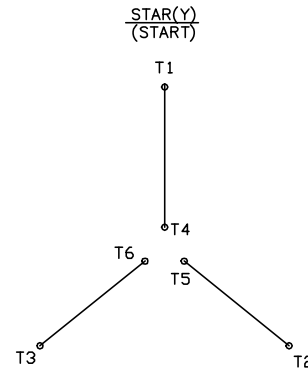
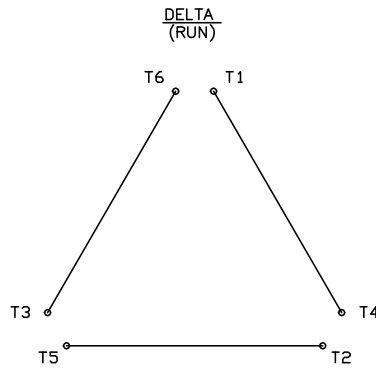
565-686F09

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