



Customer information packet

EM44252T-4

250HP, 3570RPM, 3PH, 60HZ, 449TS, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	268.000 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	268.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	F
Motor Lead Quantity/Wire Size	6 @ 3/0 AWG
Motor Standards	NEMA
Motor Type	A44128M
Mounting Arrangement	F1

Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2749
Layout	617427-460
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	02
Leads	3#3/0 (02 per group)
Proprietary	False
Created date	04-02-2015

Number of Poles	2
Overall Length	49.71 IN
Power Factor	91
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	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

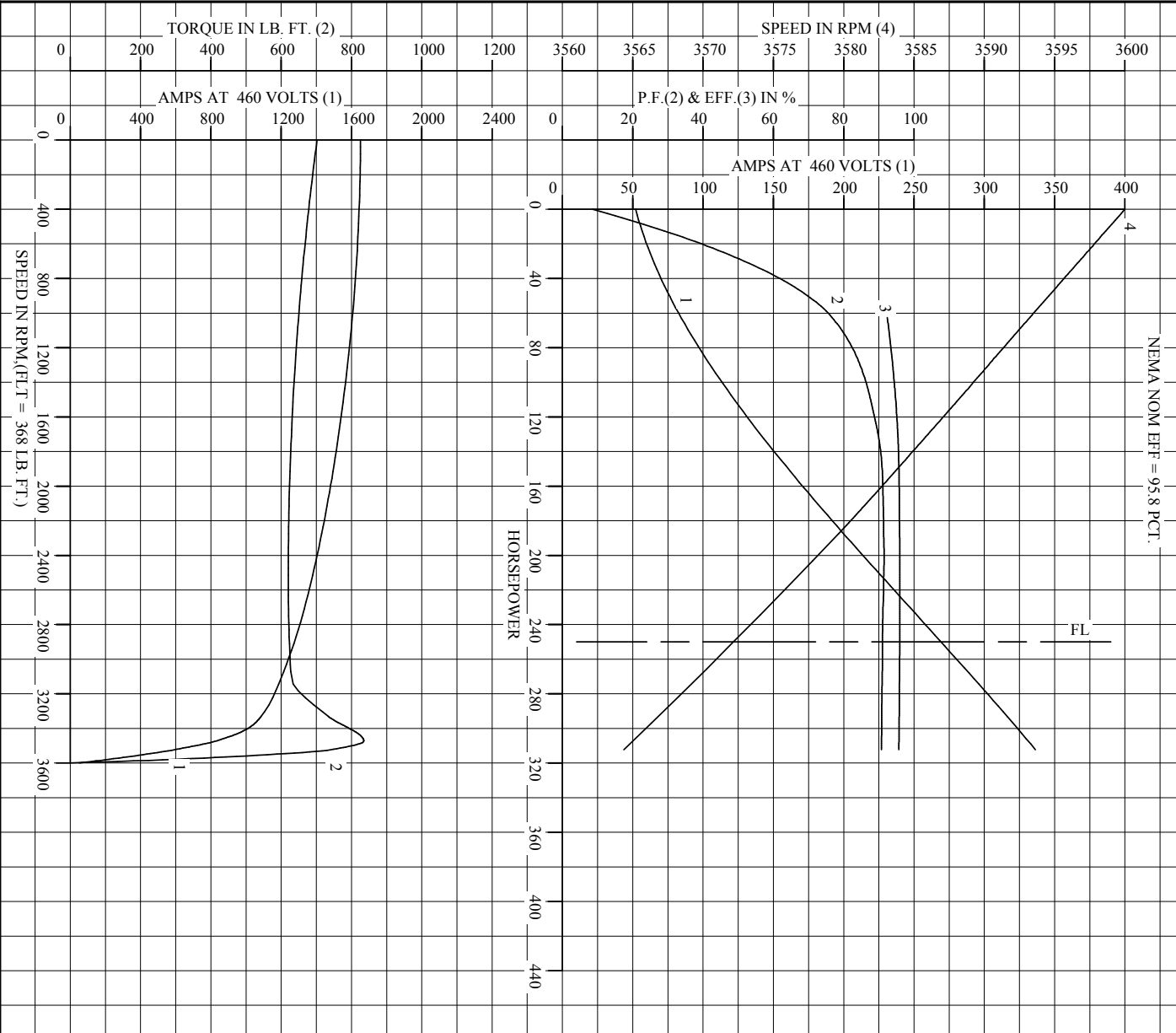
NP2496L	
MOBIL POLYREX EM	

NP2349L

SPEC NO.	A44-7088-2749			CAT.NO.	EM44252T-4					FRAME	449TS	
HP	250	VOLTS	460		PHASE	3	DESIGN	B	TYPE	P		
RPM	3570	AMPS	268		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03J30X			DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	65BC03J30X			ENCL	TEFC	CODE	F					
SER.NO.				POWER FACTOR		91	NEMA-NOM-EFFICIENCY				95.8	
						MAX CORR KVAR		24	GUARANTEED EFFICIENCY		95	
						NEMA NOM/CSA QUOTED EFF						
						MOTOR WEIGHT						

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449TS	250	P	3/60	3570	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
268	CONT	40/F	1.15	B	F	TEFC
E/S	ROTOR		TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)	
433537	418143-13-NE		---	---	.00996	
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %	
NO LOAD	0	52.6	3600	8.53	0	
1/4	62.5	82.6	3593	76.7	92.4	
2/4	125	138	3587	89.3	95.3	
3/4	188	200	3580	91.4	95.9	
4/4	250	268	3572	91.0	95.9	
5/4	312	337	3564	90.8	95.7	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR	0		191	702	1651	
PULL UP	2550		169	620	1371	
BREAKDOWN	3472		227	835	831	
FULL LOAD	3572		100	368	268	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA						
NEMA NOM EFF = 95.8 PCT.						
BALDOR			DR. BY W. L. SMITH CR. BY J. J. HARRISON APP. BY W. L. SMITH DATE 07/26/07		A-C MOTOR PERFORMANCE DATA A44WG2749-R006 ISSUE DATE 09/22/17	
A MEMBER OF THE ABB GROUP						

REL. S. O.		RPM	3570	S. F.	1.15	ROTOR	418143-13-NE
FRAME	449TS	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	250	AMPS	268	CODE LETTER	F	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES. @ 25 °C	.00996
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	433537	OHMS (BETWEEN LINES)	

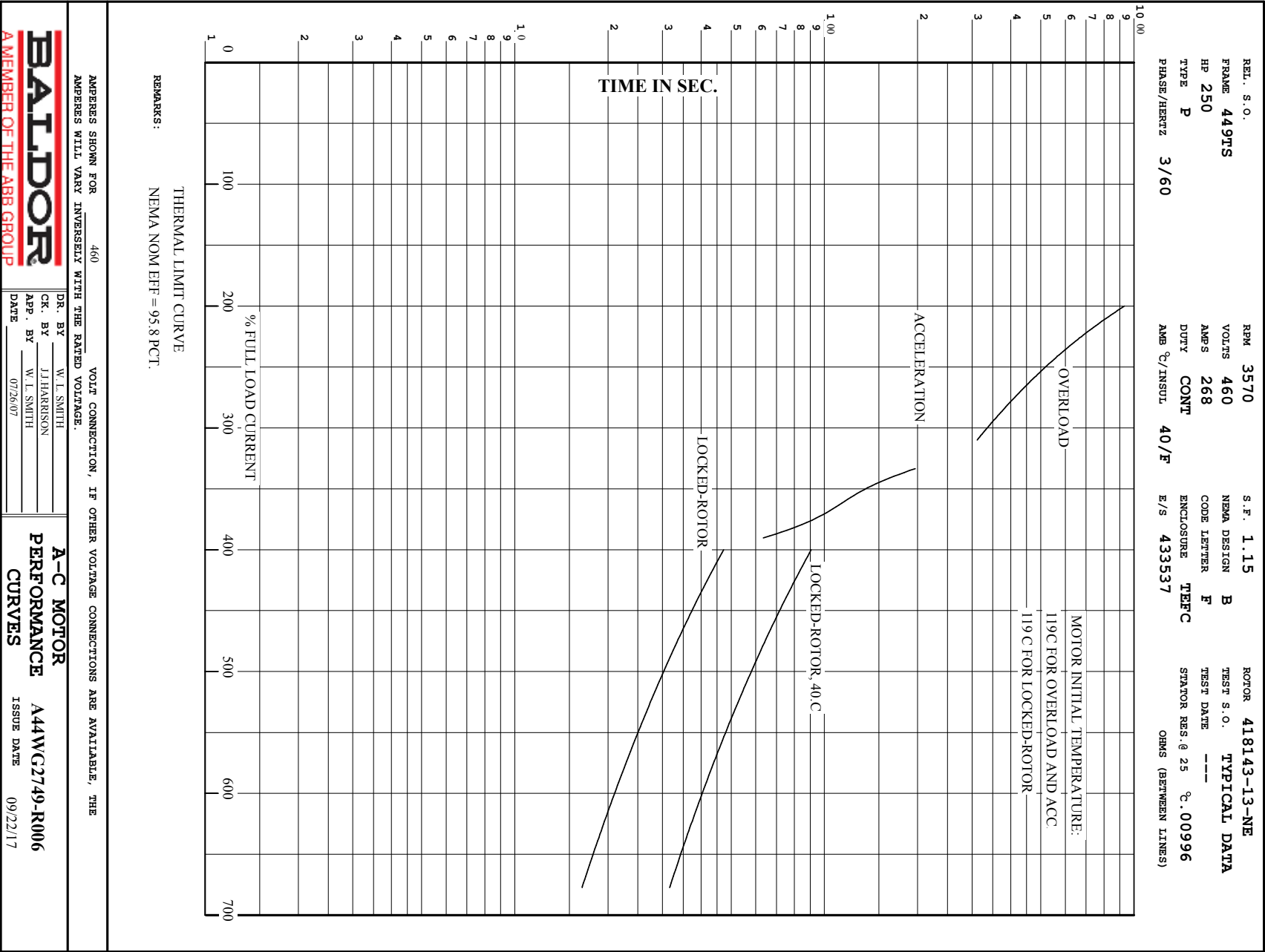


AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH
CK. BY J. HARRISON
APP. BY W. L. SMITH
DATE 07/26/07

A-C MOTOR PERFORMANCE CURVES
A44WG2749-R006
ISSUE DATE 09/22/17



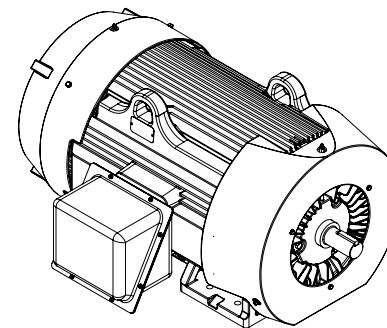
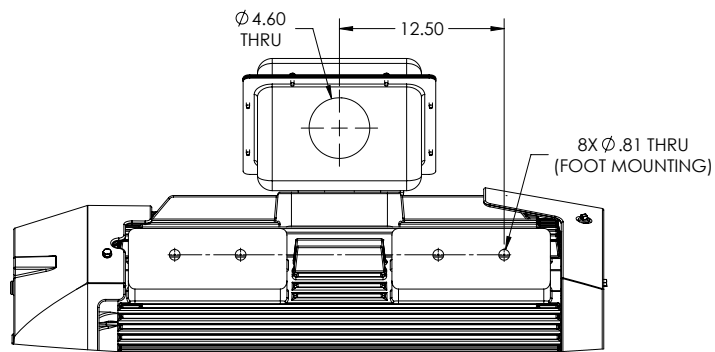
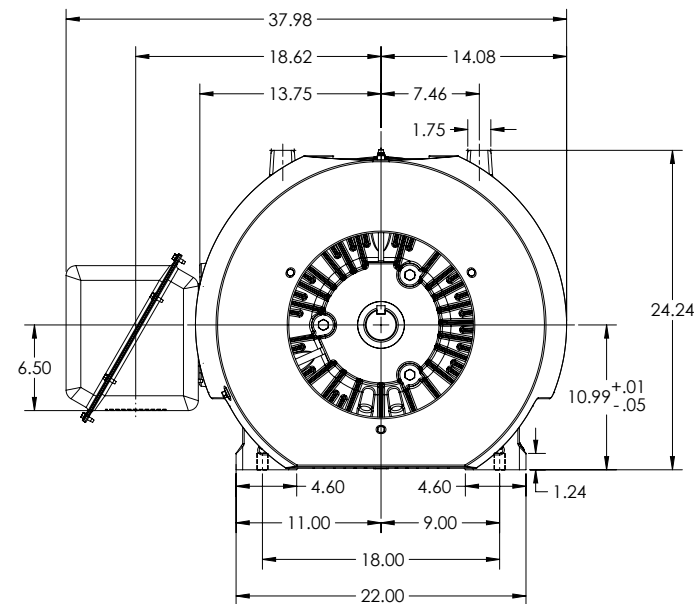
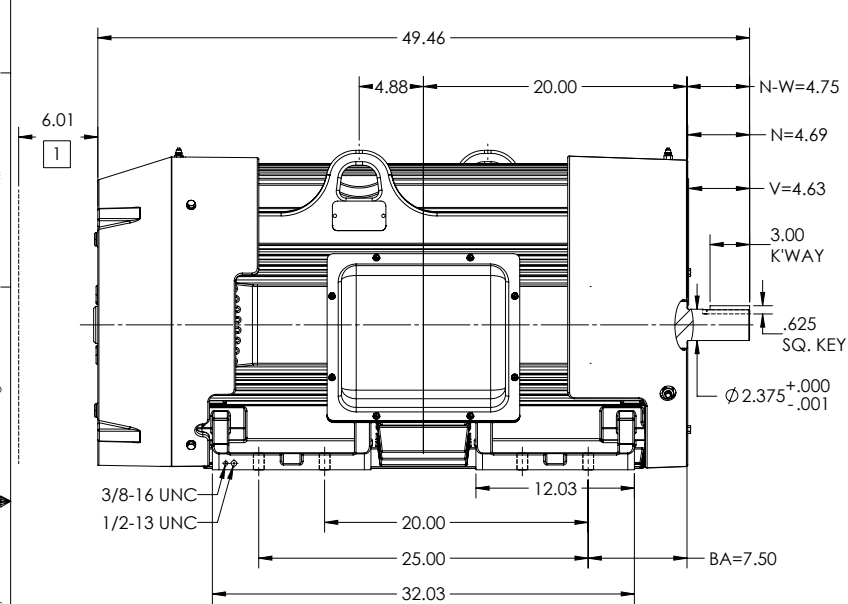
DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F1

G449TS/G447TS FRAME MOUNTING HOLES

COOLING: FAN COOLED



SHEET NUMBER
1 OF 1

1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 3045, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATE MODEL TO ADD EXT HARDWARE NO CHG TO PRINT

REV: B	VERSION: 02
MODEL NO. 617427-160	

REVISED: 02-50:14 07/08/2022	TDR: 000001193529
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22	TDR: 000001193529
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BALDOR

G449/447TS TEFC F1 FOOT SIDE/CENTER STEEL CONDUIT BOX

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1