

ABB BALDOR RELIANCE III

Customer information packet

SPM4408TR-4

250HP, 1790RPM, 3PH, 60HZ, L449T, A44176M, TEF

Class - CLI GP A,B,C,D; CLII GP F,G

Division - Division II

Specifications

Enclosure	TEFC
Frame	L449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D; CLII GP F,G
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Current @ Voltage	280.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.5 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	280.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG6739
Layout	617439-178
Eff. date	09-24-2026
CD Diagram	416820-036
Poles	04
Leads	3#1 (02 per group) Y
Proprietary	False
Created date	09-26-2023

Motor Lead Quantity/Wire Size	6 @ 1 AWG
Motor Standards	NEMA
Motor Type	A44176M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	60.34 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Roller
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1790 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL SHC -220 GREASE	

NP4562L

CAT NO	SPM4408TR-4	SPEC NO.	A44-5011-6739	I.P.	55				
HP	250	AMPS	280	VOLTS	460	DESIGN	A		
FRAME SIZE	L449T	RPM	1790	MAX RPM	2700	HZ	60	AMB	40 C
D.E. BRG.	110RU02M30X	PH.3	3	DUTY	CONT	INSUL.CLASS	H		
O.D.E. BRG.	90BC03J30X	TYPE P	P	ENCL	TEFC	SF	1.15	CODE	J
POWER FACTOR	86	MAX CORR KVAR	50.8	NEMA NOM EFFICIENCY	96.5	MOTOR WEIGHT		LBS	
CL.I,DIV 2,GRP:	A,B,C,D	T.CODE	T3	CL.1,ZONE 2,GRP:		IIA,IIB,IIC	T= 200	C	INVERTER T.CODE T3
CL.II,DIV 2,GRP:	F,G	T.CODE	T3C	CL II ZONE 22 GRPS IIIB		T=	160	C	INVERTER T.CODE T3C
ID LOGO	INV TYPE:	VPWM	CT 30	TO 60	VT 3	TO 60	CHP 60	TO 90	
ID LOGO	1.0 SF VPWM	WK2	116	LBFT2	SL HZ	0.3	MAG CUR	99	
SER.NO.		MEETS INTENT OF IEEE-45				FOR WEATHER PROTECTION			

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							SPM4408TR-4 - 250HP, 1790RPM, 3PH, 60HZ, L449T, A44176M, TEF						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			449T			250			P			3/60			1790			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
280			CONT			40/H			1.00			A			J			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
---			A44RC40176A00			---			---			.00944								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			92.7			1800			3.25			0					
1/4			62.5			115			1797			53.9			94.6					
2/4			125			160			1795			75.8			96.5					
3/4			187			217			1792			83.6			96.7					
4/4			250			280			1789			86.6			96.6					
5/4			312			345			1787			88.0			96.3					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			382			2802			2583					
PULL UP						1570			237			1739			1541					
BREAKDOWN						1730			287			2110			1121					
FULL LOAD						1789			100			734			280					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
TYPICAL DATA XE MOTOR; NEMA NOM. EFF. 96.5 PCT.																				
						DRAWN BY: <u>J. P. TSAO</u> CHECKED BY: <u>W.L.SMITH</u> APPROVED BY: <u>W.L.SMITH</u> DATE: <u>08/21/25</u>						AC MOTOR PERFORMANCE DATA			A44WG6739-R002 DATE ISSUED 08/21/25					

FRAME 449T

RPM 1790

S.F. 1.00

ROTOR A44RC40176A00

HP 250

VOLTS 460

NEMA DESIGN A

TEST S.O. TYPICAL DATA

TYPE P

AMPS 280

CODE LETTER J

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

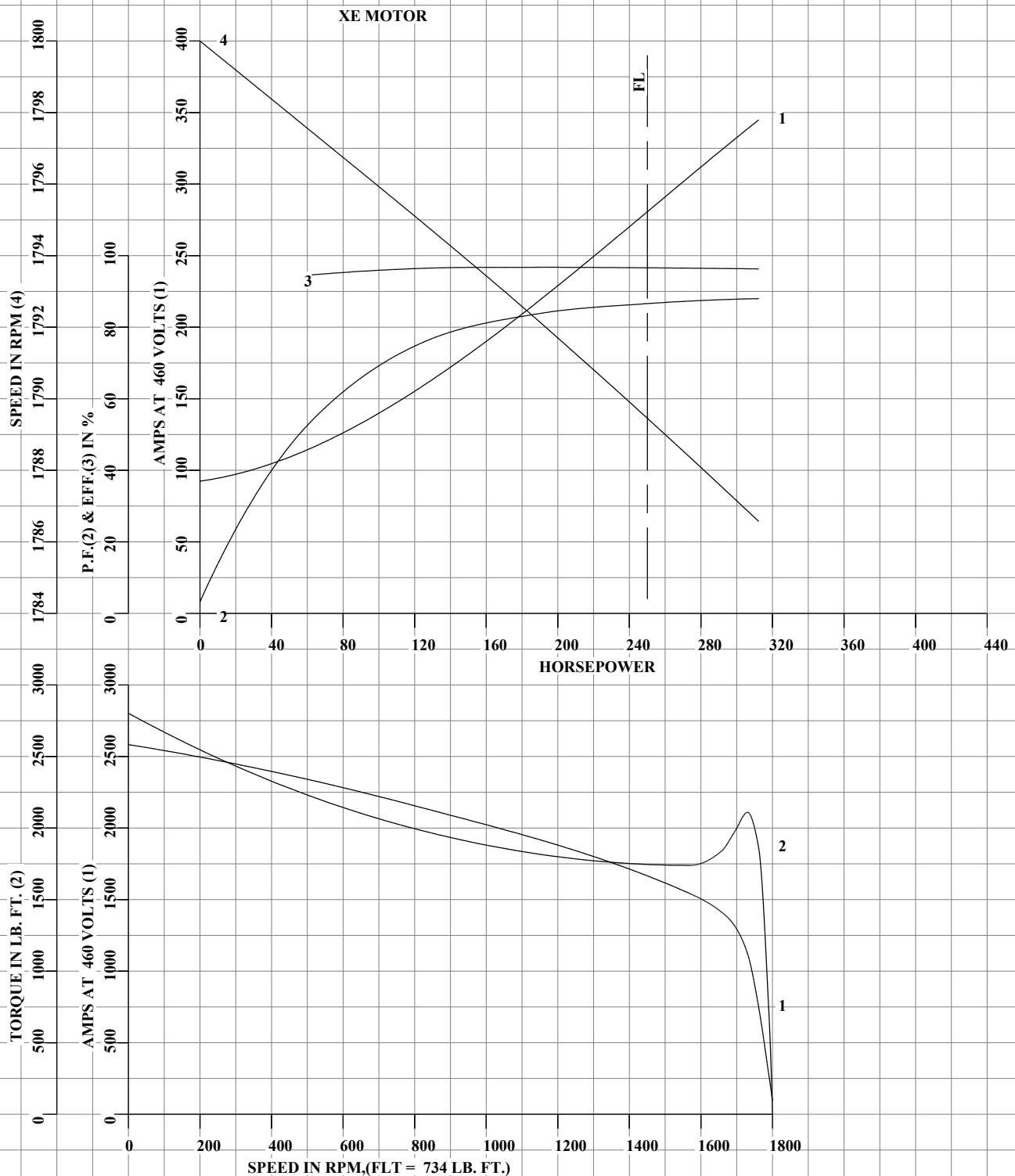
ENCLOSURE TEFC

STATOR RES. @ 25°C .00944

AMB °C / INSUL 40/H

E/S ---

OHMS (BETWEEN LINES)



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

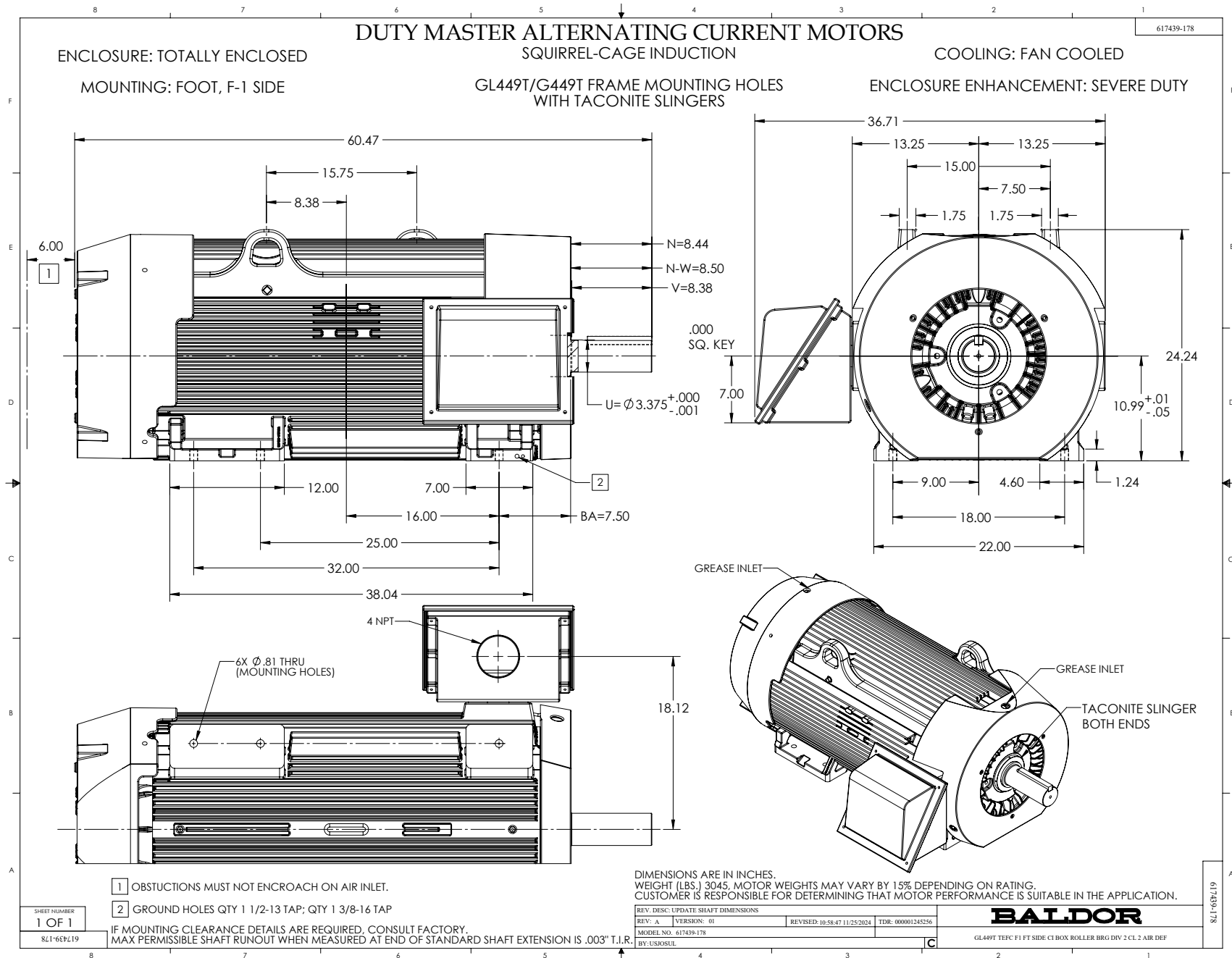


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AC MOTOR
 PERFORMANCE
 DATA

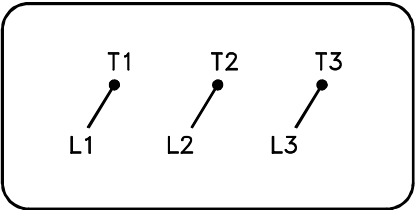
A44WG6739-R002

ISSUE DATE 08/21/25



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