



Customer information packet

SPM44302TS-4

300HP, 3570RPM, 3PH, 60HZ, L449TS, A44208M, TE

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

Division - Division II

Specifications

Enclosure	TEFC
Frame	L449TS
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	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	315.000 A @ 460.0 V
Design Code	B
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	315.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Max Speed	4200 rpm
Motor Lead Quantity/Wire Size	6 @ 3/0 AWG

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5291
Layout	617439-226
Eff. date	01-22-2025
CD Diagram	416820-036
Poles	02
Leads	3#3/0 (02 per group)
Proprietary	False
Created date	12-18-2024

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	56.71 IN
Power Factor	93
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	Shaft 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	

NP4562L

CAT NO	SPM44302TS-4		SPEC NO.		A44-5011-5291			I.P.		55							
HP	300	AMPS	315		VOLTS		460		DESIGN		B						
FRAME SIZE	L449TS	RPM	3570		MAX RPM		4200		HZ		60	AMB	40				
D.E. BRG.	65BC03J30X		PH.3		3	DUTY	CONT		INSUL.CLASS		F						
O.D.E. BRG.	65BC03J30X		TYPE P		P	ENCL	TEFC		SF	1.15	CODE	F					
POWER FACTOR	93		MAX CORR KVAR		16		NEMA NOM EFFICIENCY				96.2		MOTOR WEIGHT		3345	LBS	
CL.I,DIV 2,GRP:	A,B,C,D		T.CODE		T2D		CL.1,ZONE 2,GRP:				IIA,IIB,IIC		T=	215	INVERTER T.CODE		T2B
CL.II,DIV 2,GRP:	F,G		T.CODE		T3C		CL II ZONE 22 GRPS IIIB				T=		160	INVERTER T.CODE		T3C	
ID LOGO	INV TYPE:		VPWM		CT	30	TO	60	VT	3	TO	60	CHP	60	TO	70	
ID LOGO	1.0 SF VPWM		WK2		52.4		LBFT2		SL HZ		0.44		MAG CUR		52.5		
SER.NO.			MEETS INTENT OF IEEE-45						FOR WEATHER PROTECTION								

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					SPM44302TS-4 - 300HP, 3570RPM, 3PH, 60HZ, L449TS, A44208M, TE				
		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS				
		L449TS	300	P	3/60	3570	460				
AMPS		DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE				
315		CONT	40/F	1.15	B	F	TEFC				
E/S		ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)						
---		418143006B	---	---	.00837						
PERFORMANCE											
LOAD	HP	AMPERES		RPM	% POWER FACTOR		% EFFICIENCY				
NO LOAD	0	52.5		3600	7.63		0				
1/4	75.0	90.2		3594	82.8		94.0				
2/4	150	157		3587	92.8		96.1				
3/4	225	233		3580	93.6		96.4				
4/4	300	315		3573	92.8		96.2				
5/4	375	396		3566	92.4		95.9				
SPEED TORQUE											
		RPM		TORQUE % FULL LOAD		TORQUE LB.-FT.		AMPERES			
LOCKED ROTOR		0		168		740		2085			
PULL UP		2450		144		635		1750			
BREAKDOWN		3471		260		1145		1160			
FULL LOAD		3573		100		441		315			
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.											
TYPICAL DATA NEMA NOM.EFF. 96.2 PCT.											
		DRAWN BY: <u>W.L.SMITH</u> CHECKED BY: <u>C.E.JAMISON</u> APPROVED BY: <u>W.L.SMITH</u> DATE: <u>12/18/24</u>			AC MOTOR PERFORMANCE DATA		A44WG5291-R004 DATE ISSUED 12/18/24				

FRAME L449TS

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 300

AMPS 315

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

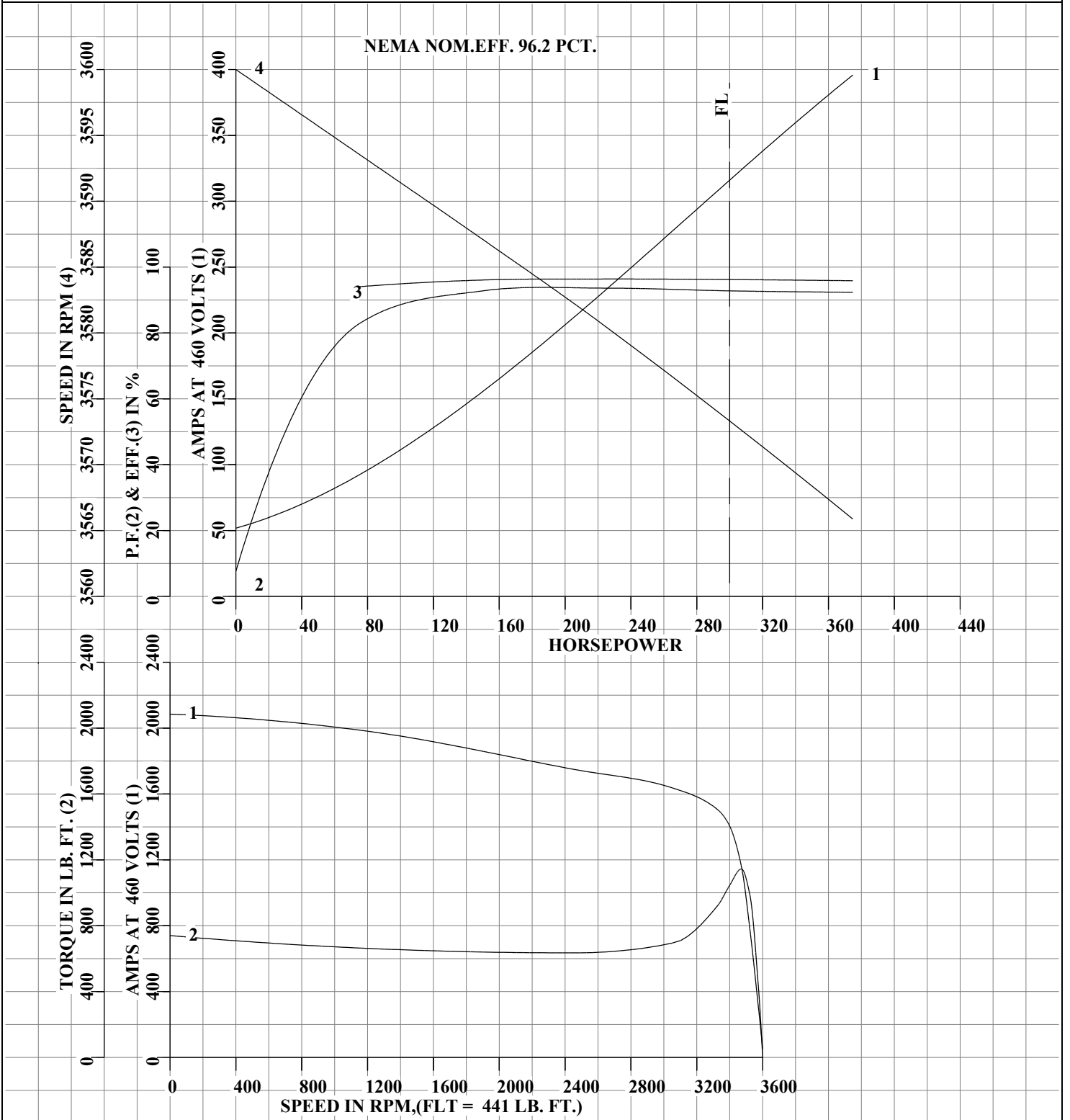
STATOR RES. @ 25°C .00837

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

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.

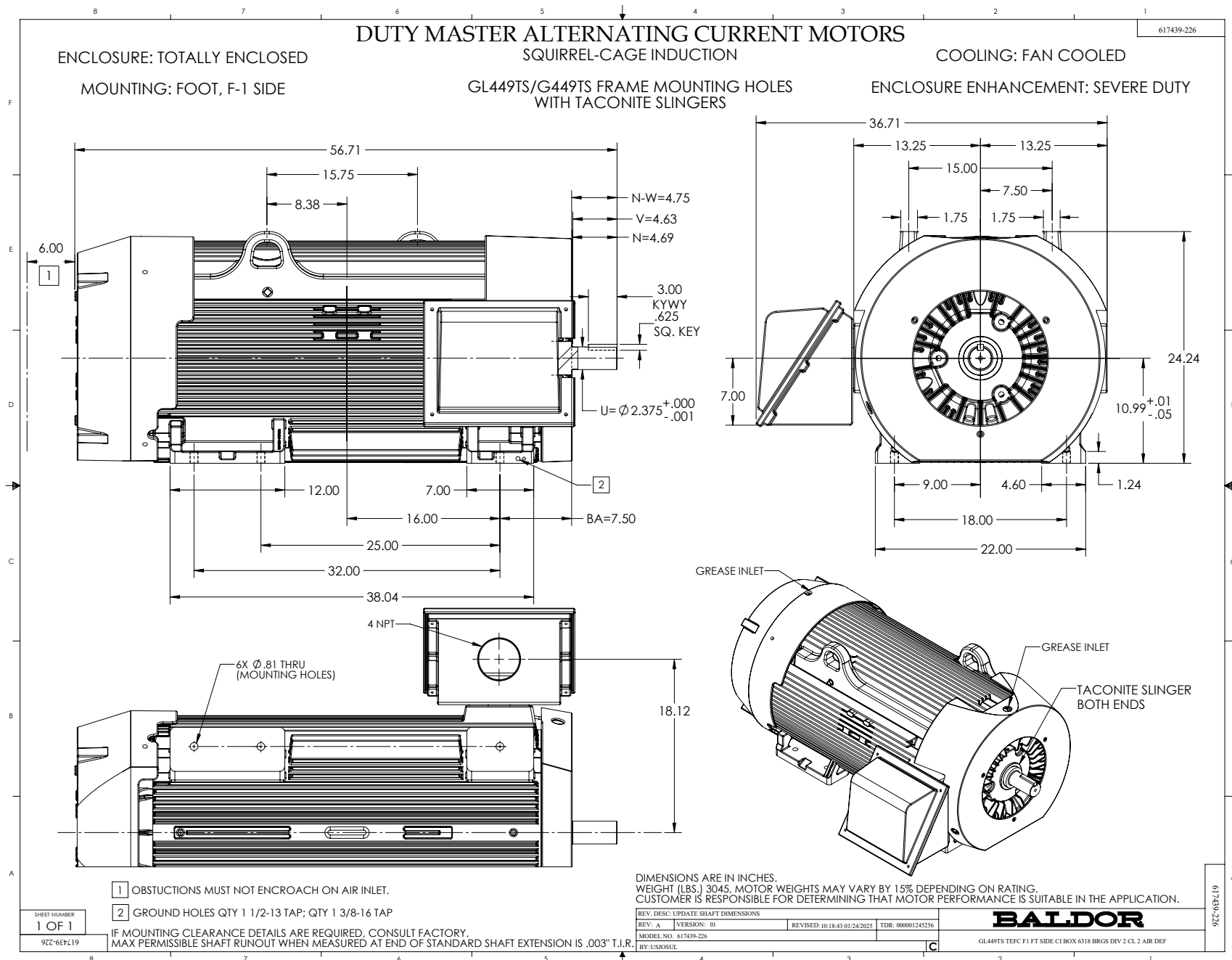


DRAWN BY: W.L.SMITH
 CHECKED BY: C.E.JAMISON
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 DATE: 12/18/24

**AC MOTOR
PERFORMANCE
DATA**

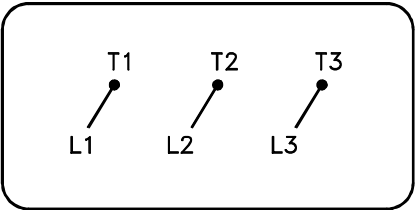
A44WG5291-R004

ISSUE DATE 12/18/24



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