

ABB BALDOR RELIANCE III

Customer information packet

SPM4407TS-4

200HP, 1790RPM, 3PH, 60HZ, 449TS, A44124M, TEF

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

Division - Division II

Specifications

Enclosure	TEFC
Frame	449TS
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	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	224.000 A @ 460.0 V
Design Code	A
Duty Rating	CONT
Efficiency @ 100% Load	96.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	224.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG6734
Layout	617439-177
Eff. date	12-26-2024
CD Diagram	416820-036
Poles	04
Leads	3#2/0 (02 per group) Y
Proprietary	False
Created date	10-10-2023

Motor Standards	NEMA
Motor Type	A44124M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	49.72 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	Shaft Slinger
Speed	1790 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	SPM4407TS-4		SPEC NO.		A44-5012-6734				I.P.		55					
HP	200	AMPS	227		VOLTS		460		DESIGN		A					
FRAME SIZE	449TS		RPM	1790		MAX RPM		2700	HZ	60	AMB	40				
D.E. BRG.	90BC03J30X			PH.3	3	DUTY	CONT		INSUL.CLASS			F				
O.D.E. BRG.	90BC03J30X			TYPE P		P	ENCL	TEFC	SF	1.15	CODE	J				
POWER FACTOR	85	MAX CORR KVAR			43		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	INVERTER T.CODE	T3
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	90	
ID LOGO	1.0 SF VPWM		WK2	81.8		LBFT2		SL HZ		0.37		MAG CUR		74.5		
SER.NO.				MEETS INTENT OF IEEE-45							FOR WEATHER PROTECTION					

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							SPM4407/TS-4 - 200HP, 1790RPM, 3PH, 60HZ, 449TS, A44124M, TEF						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			449T			200			P			3/60			1790			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
227			CONT			40/F			1.15			A			J			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
---			A44RC40124A00			---			---			.0127								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			74.5			1800			3.59			0					
1/4			50.0			93.5			1797			53.2			94.1					
2/4			100			130			1795			74.8			96.2					
3/4			150			176			1792			82.4			96.6					
4/4			200			227			1789			85.3			96.5					
5/4			250			279			1786			87.1			96.3					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			208			1220			1830					
PULL UP						1200			193			1135			1535					
BREAKDOWN						1726			335			1970			1000					
FULL LOAD						1789			100			587			227					
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. 96.5 PCT																				
						DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>C.E.JAMISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>12/03/24</u>						AC MOTOR PERFORMANCE DATA			A44WG6734-R002 DATE ISSUED 12/03/24					

FRAME 449T

RPM 1790

S.F. 1.15

ROTOR A44RC40124A00

HP 200

VOLTS 460

NEMA DESIGN A

TEST S.O. TYPICAL DATA

TYPE P

AMPS 227

CODE LETTER J

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

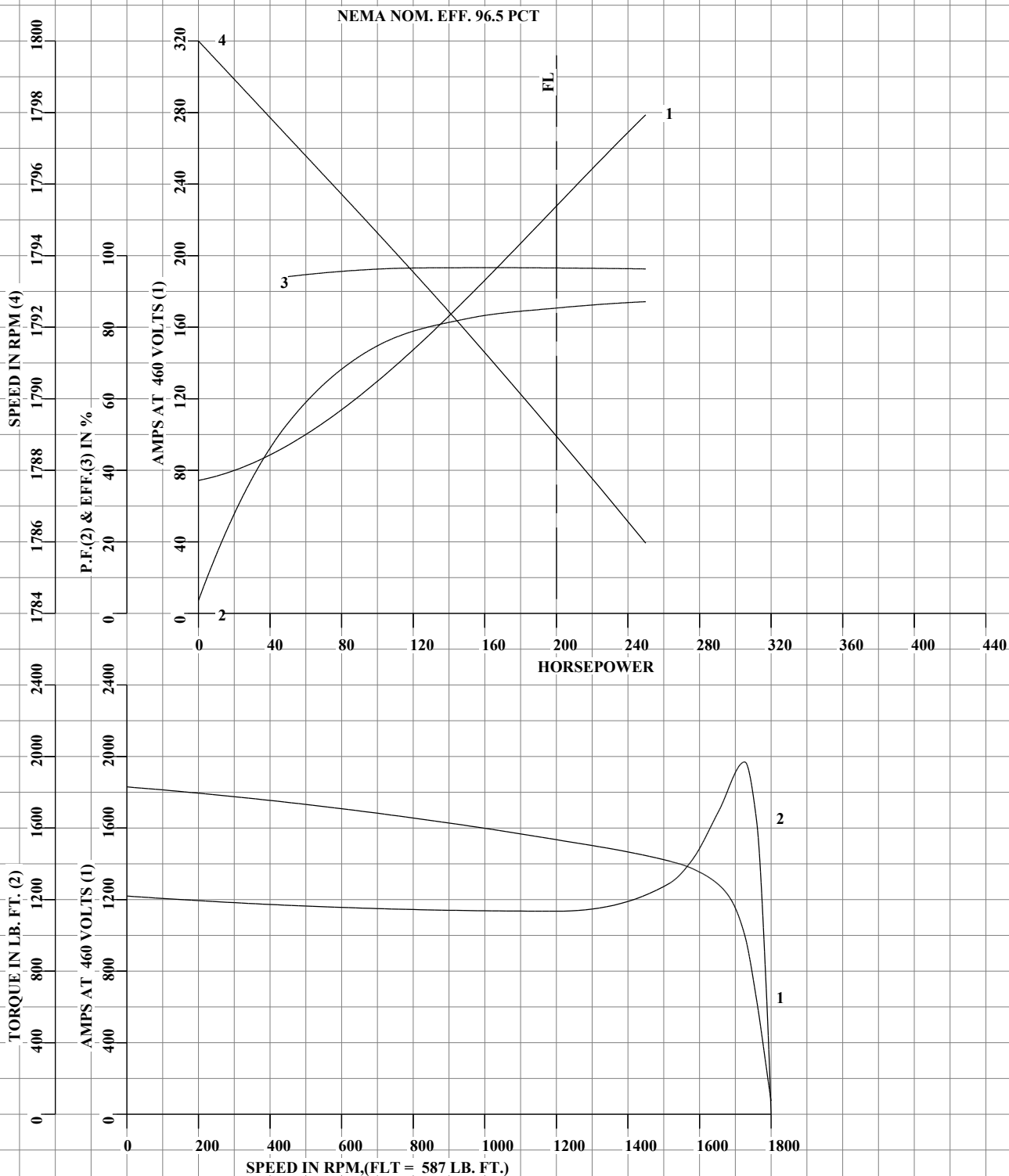
ENCLOSURE TEFC

STATOR RES. @ 25°C .0127

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.

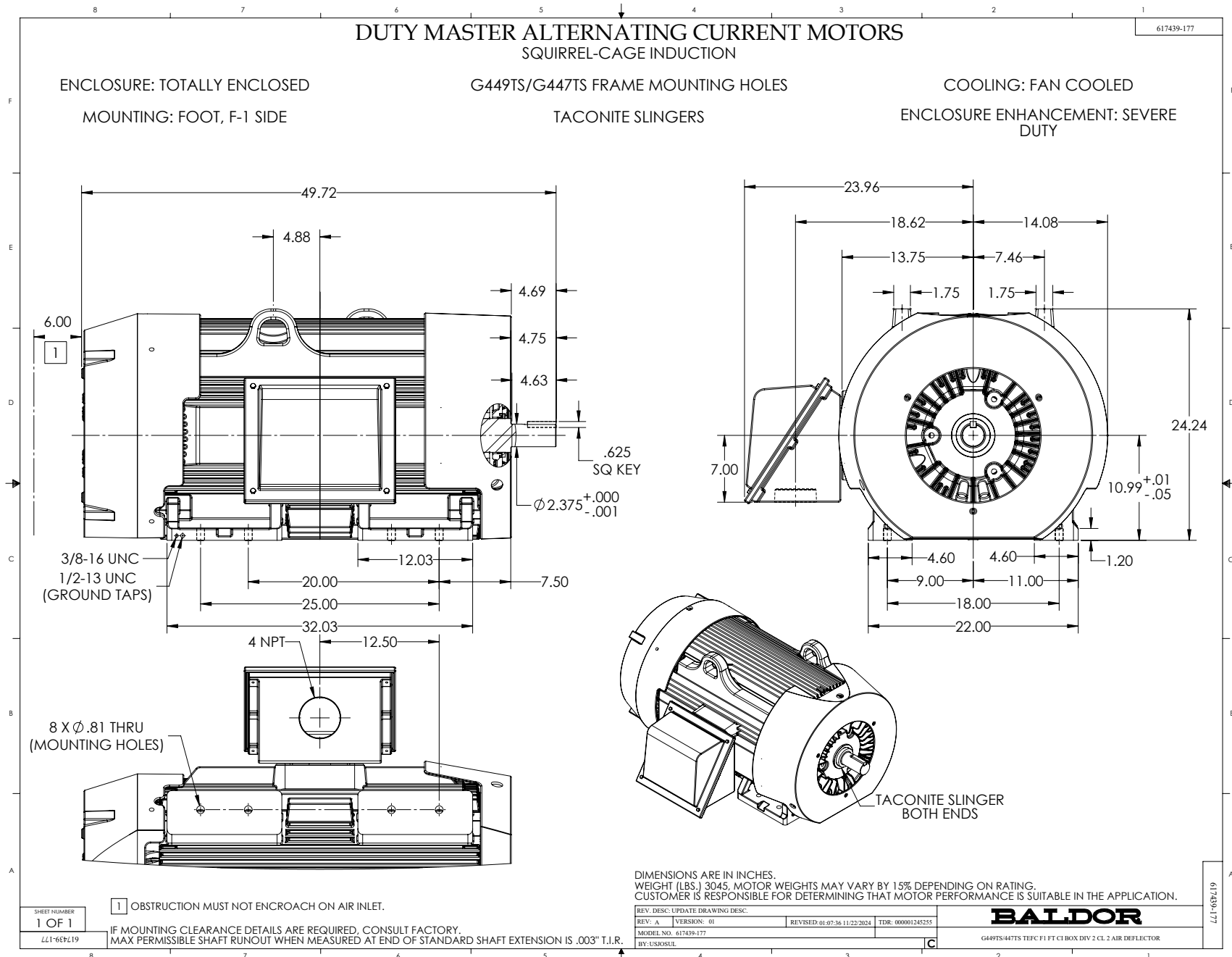


DRAWN BY: W. L. SMITH
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AC MOTOR
PERFORMANCE
DATA

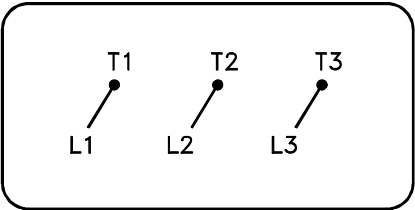
A44WG6734-R002

ISSUE DATE 12/03/24



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