

ABB BALDOR RELIANCE III

Customer information packet

SPM4412TS-4

125HP, 3575RPM, 3PH, 60HZ, 445TS, A44078M, TEF

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

Division - Division II

Specifications

Enclosure	TEFC
Frame	445TS
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	137.000 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	137.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	6 @ 1 AWG

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3104
Layout	617439-173
Eff. date	12-05-2025
CD Diagram	416820-036
Poles	02
Leads	3#1 (02 per group)
Proprietary	False
Created date	11-22-2024

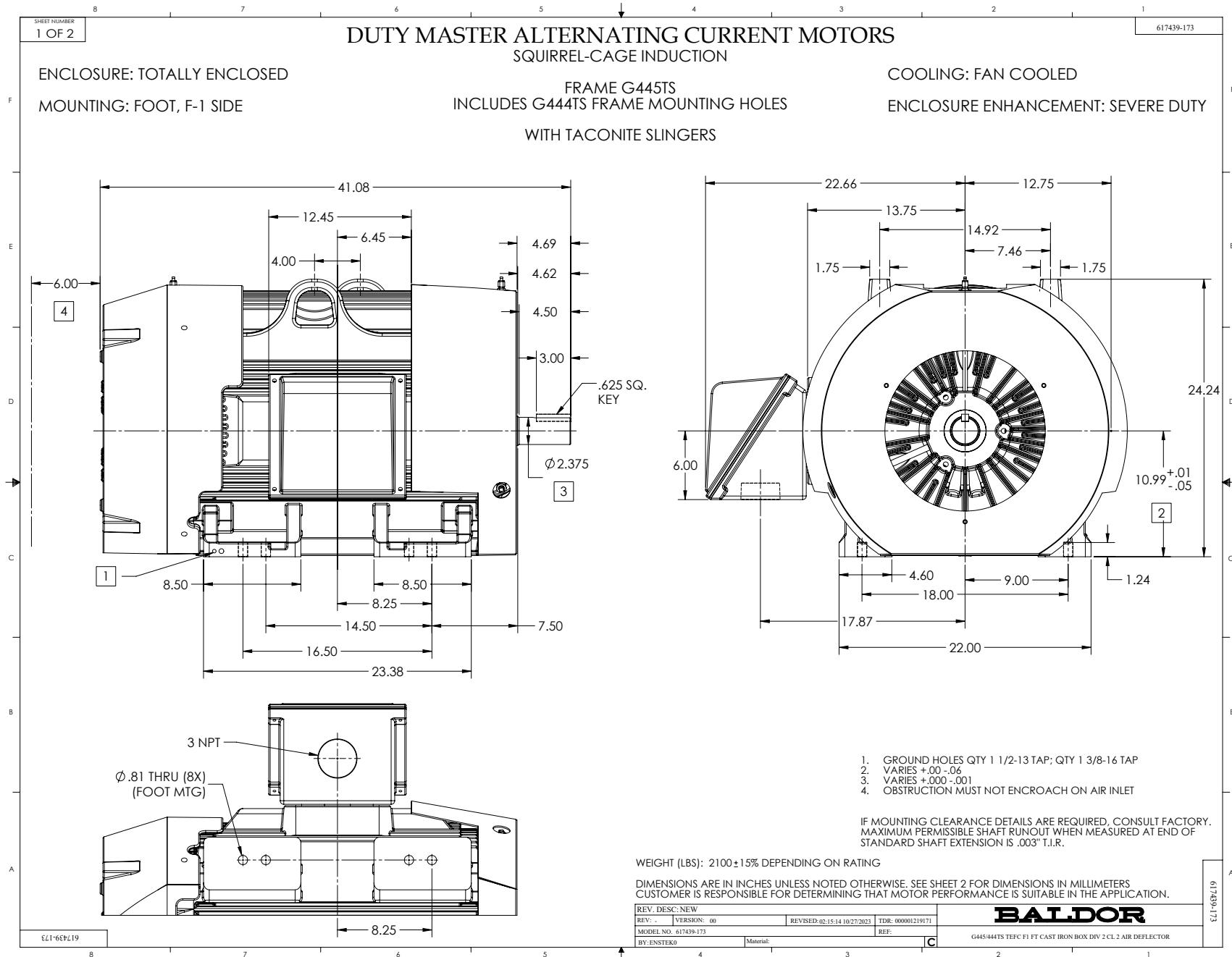
Motor Standards	NEMA
Motor Type	A44078M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	41.08 IN
Power Factor	89
Product Family	Fan - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3575 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

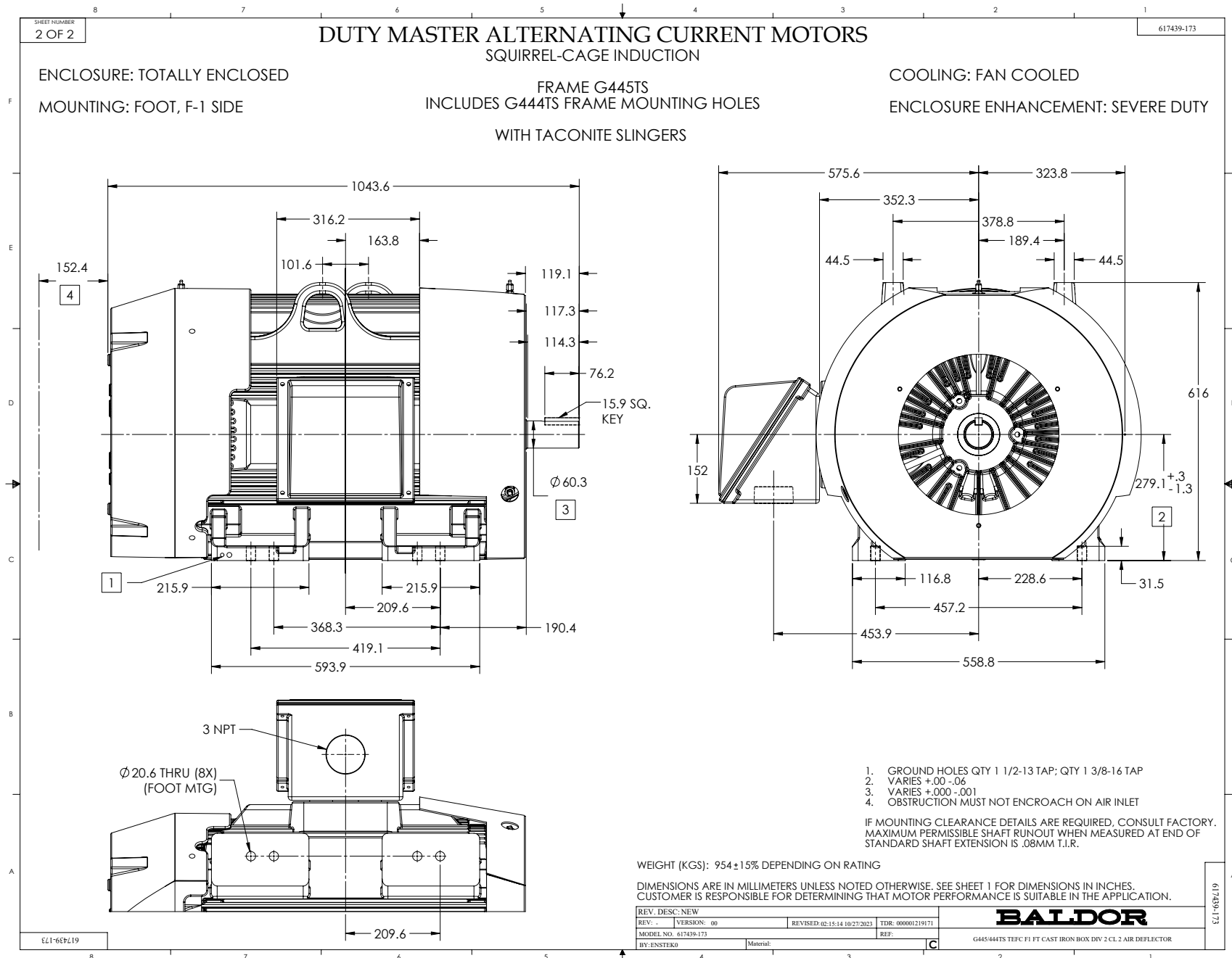
Nameplate

NP2496L	
MOBIL POLYREX EM	

NP4562L

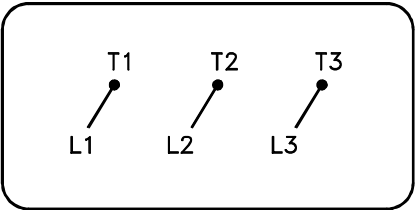
CAT NO	SPM4412TS-4			SPEC NO.		A44-5011-3104			I.P.		55						
HP	125		AMPS	137		VOLTS		460		DESIGN		B					
FRAME SIZE	445TS		RPM	3575		MAX RPM		4500		HZ	60	AMB	40	C			
D.E. BRG.	65BC03J30X			PH.3	3	DUTY	CONT			INSUL.CLASS			F				
O.D.E. BRG.	65BC03J30X			TYPE P		P	ENCL	TEFC		SF	1.15	CODE	F				
POWER FACTOR	89		MAX CORR KVAR		17		NEMA NOM EFFICIENCY					95.4		MOTOR WEIGHT		LBS	
CL.I,DIV 2,GRP:	A,B,C,D		T.CODE	T3A		CL.1,ZONE 2,GRP:					IIA,IIB,IIC		T=	180	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	70		
ID LOGO	1.0 SF VPWM		WK2	21.7		LBFT2		SL HZ		0.42		MAG CUR		32.6			
SER.NO.				MEETS INTENT OF IEEE-45						FOR WEATHER PROTECTION							





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
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