

# **ABB BALDOR RELIANCE III**

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## **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**

<b>Enclosure</b>	TEFC
<b>Frame</b>	445TS
<b>Frame Material</b>	Iron
<b>Frequency</b>	60.00 Hz
<b>Haz Area Class and Group</b>	CLI GP A,B,C,D; CLII GP F,G
<b>Haz Area Division</b>	Division II
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	125.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	3600 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	460.0 V @ 60 HZ
<b>Agency Approvals</b>	CCSAUSEEV CURUSEEV NEMA PREMIUM
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Current @ Voltage</b>	137.000 A @ 460.0 V
<b>Design Code</b>	B
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	95.4 %
<b>Feedback Device</b>	NO FEEDBACK
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	137.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	F
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Max Speed</b>	4500 rpm
<b>Motor Lead Quantity/Wire Size</b>	6 @ 1 AWG

**Part Detail**

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

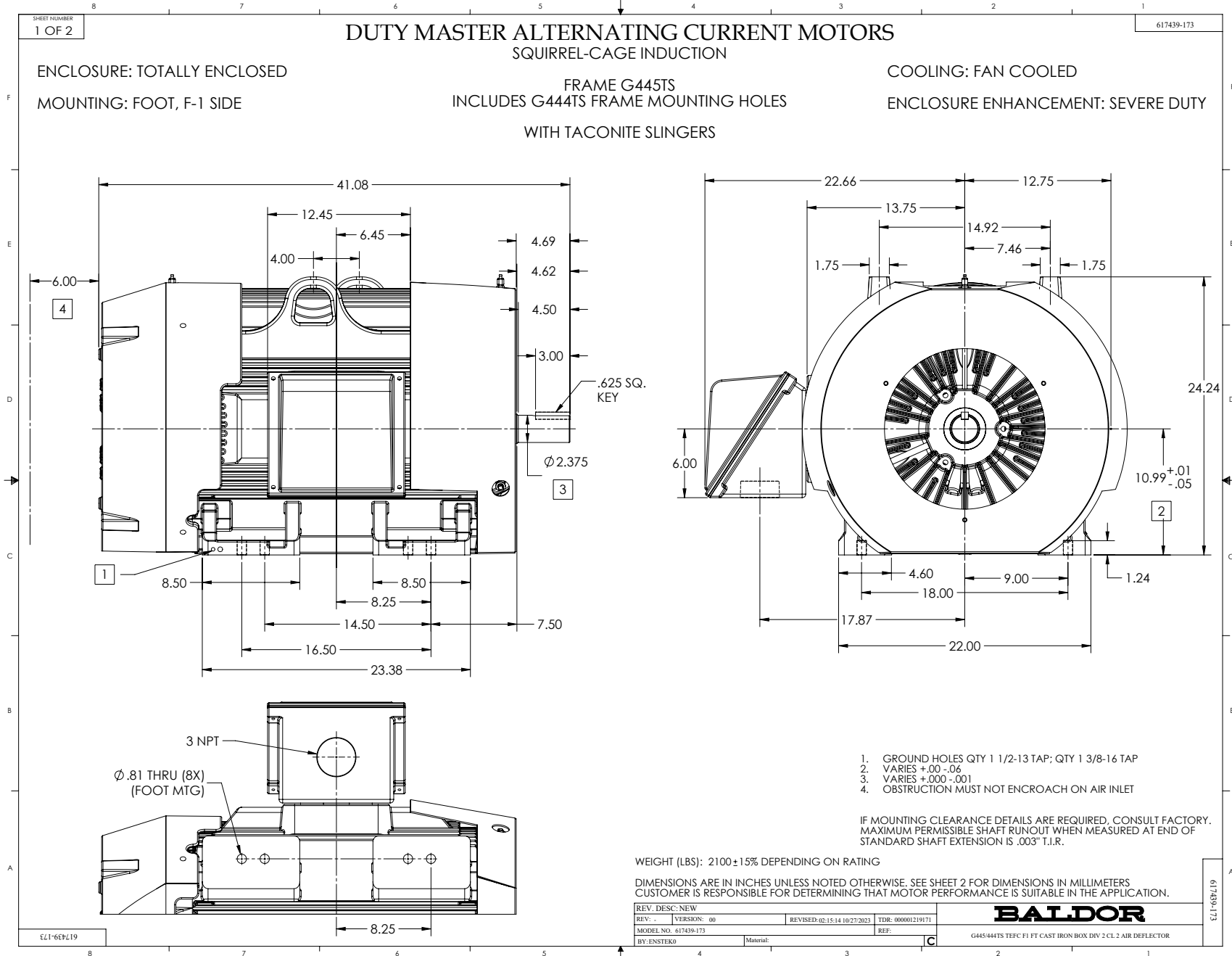
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	A44078M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	41.08 IN
<b>Power Factor</b>	89
<b>Product Family</b>	Fan - Centrifugal
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Service Factor</b>	1.15
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

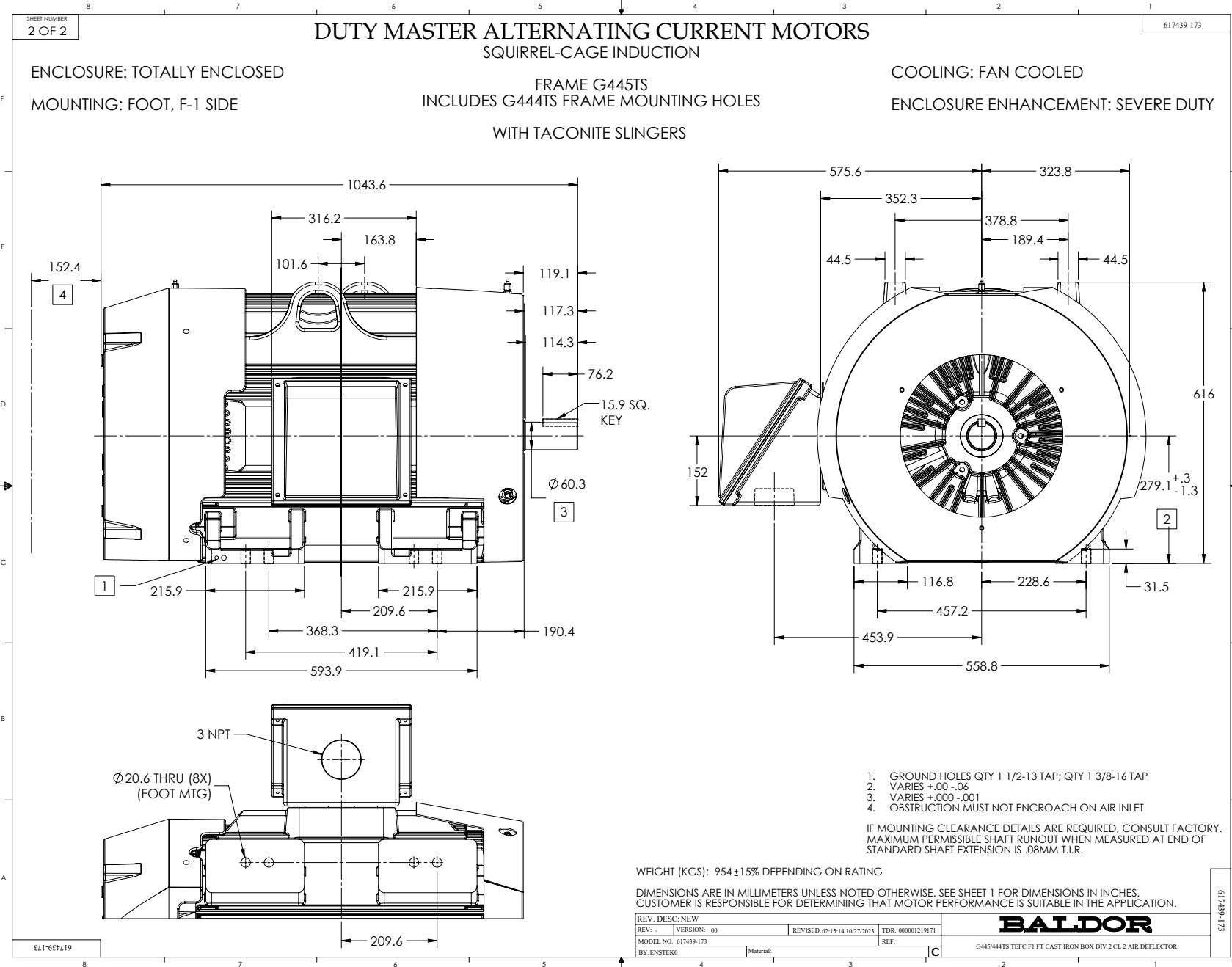
**Nameplate**

<b>NP2496L</b>	
MOBIL POLYREX EM	

**NP4562L**

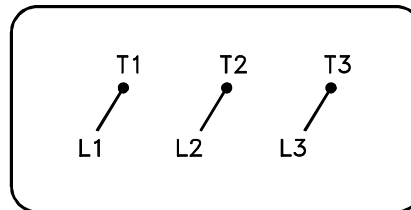
<b>CAT NO</b>	SPM4412TS-4	<b>SPEC NO.</b>	A44-5011-3104		<b>I.P.</b>	55					
<b>HP</b>	125	<b>AMPS</b>	137	<b>VOLTS</b>	460	<b>DESIGN</b>	B				
<b>FRAME SIZE</b>	445TS	<b>RPM</b>	3575	<b>MAX RPM</b>	4500	<b>HZ</b>	60	<b>AMB</b>	40	<b>C</b>	
<b>D.E. BRG.</b>	65BC03J30X	<b>PH.3</b>	3	<b>DUTY</b>	CONT	<b>INSUL.CLASS</b>	F				
<b>O.D.E. BRG.</b>	65BC03J30X	<b>TYPE P</b>	P	<b>ENCL</b>	TEFC	<b>SF</b>	1.15	<b>CODE</b>	F		
<b>POWER FACTOR</b>	89	<b>MAX CORR KVAR</b>	17	<b>NEMA NOM EFFICIENCY</b>	95.4	<b>MOTOR WEIGHT</b>		<b>LBS</b>			
<b>CL.I,DIV 2,GRP:</b>	A,B,C,D	<b>T.CODE</b>	T3A	<b>CL.1,ZONE 2,GRP:</b>	IIA,IIB,IIC	<b>T=</b>	180	<b>C</b>	<b>INVERTER T.CODE</b>	T3	
<b>CL.II,DIV 2,GRP:</b>	F,G	<b>T.CODE</b>	T3C	<b>CL II ZONE 22 GRPS IIIB</b>	T=	160	<b>C</b>	<b>INVERTER T.CODE</b>	T3C		
<b>ID LOGO</b>	<b>INV TYPE:</b>	<b>VPWM</b>	<b>CT</b> 30	<b>TO</b> 60	<b>VT</b> 3	<b>TO</b> 60	<b>CHP</b> 60	<b>TO</b> 70			
<b>ID LOGO</b>	<b>1.0 SF VPWM</b>	<b>WK2</b>	21.7	<b>LBFT2</b>	<b>SL HZ</b>	0.42	<b>MAG CUR</b>	32.6			
<b>SER.NO.</b>		<b>MEETS INTENT OF IEEE-45</b>					<b>FOR WEATHER PROTECTION</b>				





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