

ABB BALDOR RELIANCE III

Customer information packet

SPM4413TS-4

150HP, 3575RPM, 3PH, 60HZ, 447TS, A44104M, TEF

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

Division - Division II

Specifications

Enclosure	TEFC
Frame	447TS
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	150.000 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	163.000 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	163.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5887
Layout	617439-174
Eff. date	04-21-2025
CD Diagram	416820-036
Poles	02
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	11-27-2024

Motor Standards	NEMA
Motor Type	A44104M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	44.58 IN
Power Factor	91
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	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	SPM4413TS-4		SPEC NO.		A44-5000-5887				I.P.		55				
HP	150	AMPS	163		VOLTS		460		DESIGN		B				
FRAME SIZE	447TS	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	G				
POWER FACTOR	91	MAX CORR KVAR		16		NEMA NOM EFFICIENCY				95.4		MOTOR WEIGHT		LBS	
CL.I,DIV 2,GRP:	A,B,C,D	T.CODE	T3B		CL.1,ZONE 2,GRP:				IIA,IIB,IIC		T=	165	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	27.2	LBFT2		SL HZ	0.4		MAG CUR		38.1			
SER.NO.			MEETS INTENT OF IEEE-45						FOR WEATHER PROTECTION						

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

FRAME G447TS ABOVE NEMA RATINGS

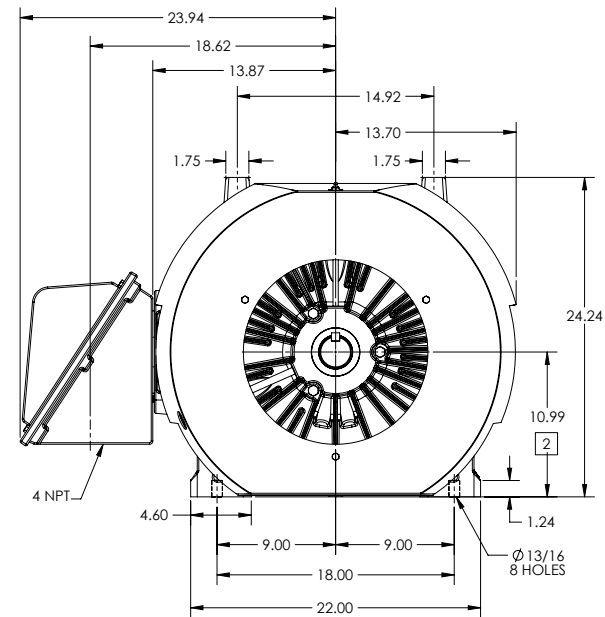
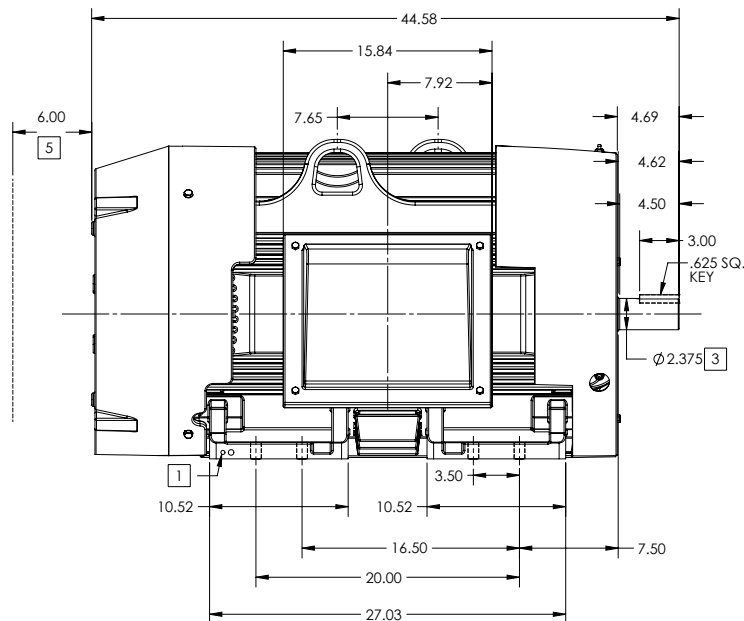
COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445TS FRAME MOUNTING HOLES

ENCLOSURE ENHANCEMENT: SEVERE DUTY

WITH TACONITE SLINGERS



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00-.06
3. VARIES +.000-.001
4. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

4 WEIGHT (LBS): 2480

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

 SHEET NUMBER
1 OF 2

FL11-657L19

REV. DESC: NEW	VERSION: 00	REVISED: 11-26-41 10/31/2023	TDR: 000001219171
MODEL NO. 617439-174	REF:		
BY: ENSTEKO	Material:		

BALDOR

G447TS/445TS TEF FC F1 FT CAST IRON BOX DIV 2 CL 2 AIR DEF

617439-174

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

FRAME G447TS ABOVE NEMA RATINGS

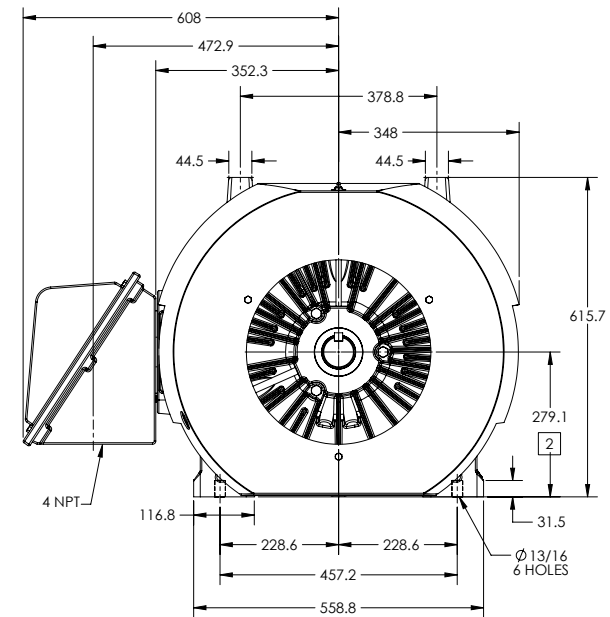
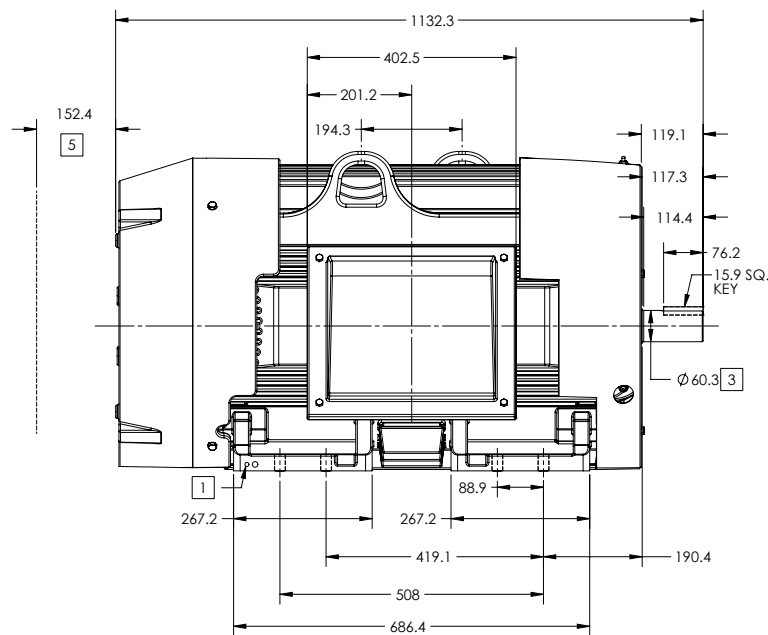
COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES G445TS FRAME MOUNTING HOLES

ENCLOSURE ENHANCEMENT: SEVERE DUTY

WITH TACONITE SLINGERS



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00-.06
3. VARIES +.000-.001
4. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

4 WEIGHT (KGS): 1125

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

 SHEET NUMBER
2 OF 2

FL1-657L19

REV. DESC: NEW	VERSION: 00	REVISED: 11-26-41 10/31/2023	TDR: 000001219171
MODEL NO. 617439-174	REF:		
BY: ENSTEKO	Material:		

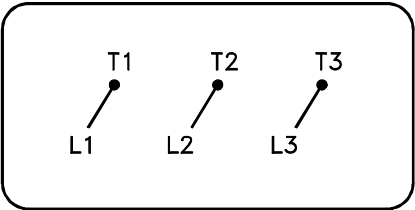
BALDOR

G447TS/445TS TEF FC F1 FT CAST IRON BOX DIV 2 CL 2 AIR DEF

617439-174

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