ABB BALDOR RELIANCE

Customer information packet

SPM4406TS-4

150HP, 1790RPM, 3PH, 60HZ, 447TS, A4496M, TEFC
Class - CLI GP A,B,C,D; CLII GP F,G
Division - Division II

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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	1800 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	170.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	170.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	H
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG6732
Layout	617439-174
Eff. date	12-26-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0 Y
Proprietary	False
Created date	03-22-2024

Motor Type	A4496M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.58 IN
Power Factor	85
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	SPM4406TS-4			**SPEC NO.**	A44-5012-6732				**I.P.**	55										
HP	150	**AMPS**	173		**VOLTS**	460			**DESIGN**	A										
FRAME SIZE	447TS	**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	84			**MAX CORR KVAR**	36					**NEMA NOM EFFICIENCY**	96.2				**MOTOR WEIGHT**		**LBS**			
CL.I,DIV 2,GRP:	**A,B,C,D**	**T.CODE**	T3C			**CL.1,ZONE 2,GRP:**			**IIA,IIB,IIC**	**T=**	160		**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**	63.4		**LBFT2**		**SL HZ**	0.33		**MAG CUR**	61.5									
SER.NO.					**MEETS INTENT OF IEEE-45**					**FOR WEATHER PROTECTION**										

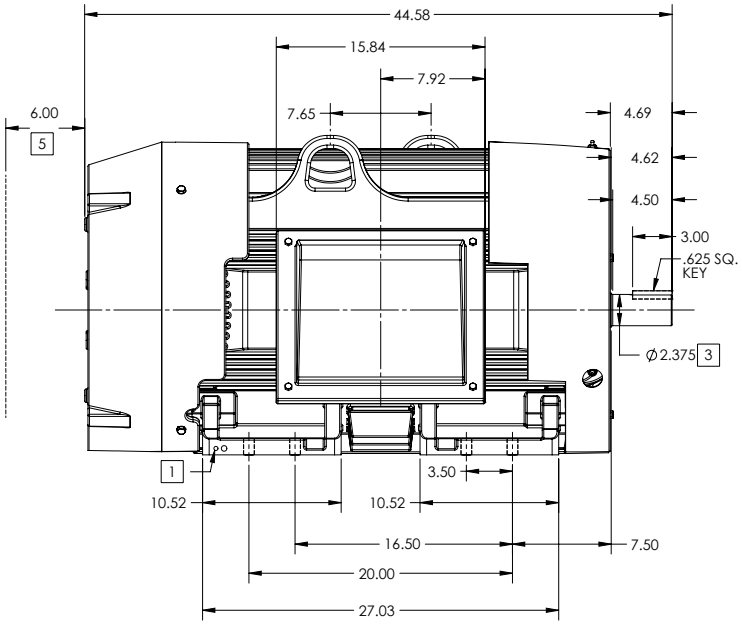
617439-174

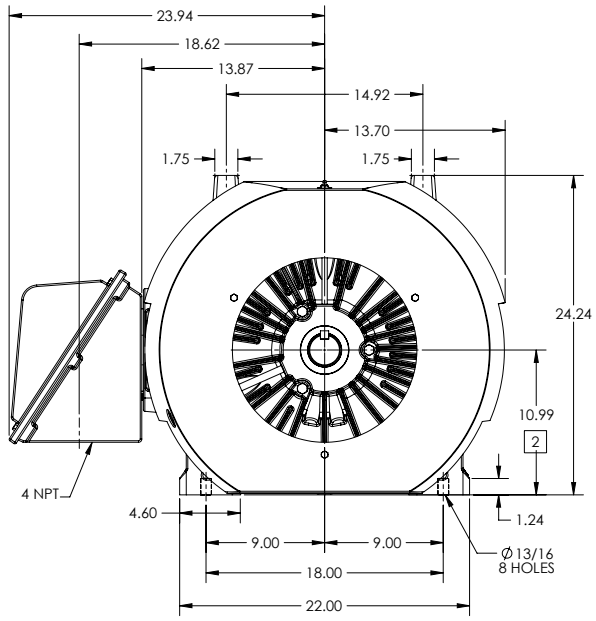
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED | FRAME G447TS ABOVE NEMA RATINGS | COOLING: FAN COOLED

MOUNTING: FOOT | INCLUDES 445TS FRAME MOUNTING HOLES WITH TACONITE SLINGERS | ENCLOSURE ENHANCEMENT: SEVERE DUTY





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

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.

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.

SHEET NUMBER 1 OF 2

617439-174

REV. DESC: NEW			
REV: -	VERSION: 00	REVISED: 11:26:41 10/31/2023	TDR: 000001219171
MODEL NO. 617439-174			REF:
BY: ENSTEK0	Material:	C	

BALDOR

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

617439-174

617439-174

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

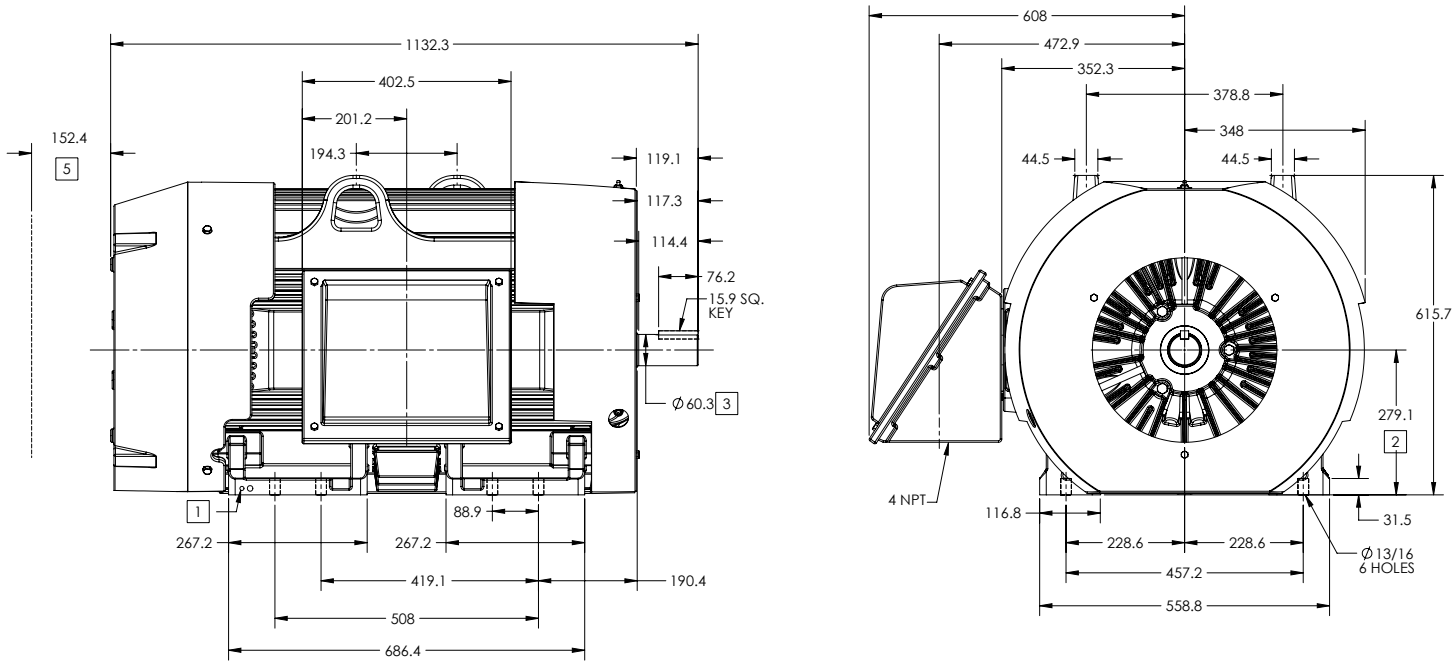
FRAME G447TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES G445TS FRAME MOUNTING HOLES WITH TACONITE SLINGERS

ENCLOSURE ENHANCEMENT: SEVERE DUTY



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

617439-174

REV. DESC: NEW			
REV: -	VERSION: 00	REVISED: 11:26:41 10/31/2023	TDR: 000001219171
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BY: ENSTEK0	Material:	C	

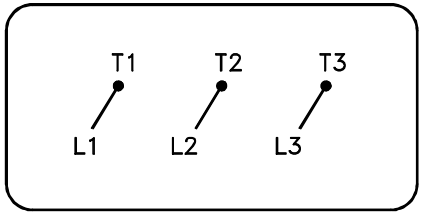
BALDOR

G447TS/445TS TEFC 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			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1