

ABB BALDOR RELIANCE III

Customer information packet

SPM4406TR-4

150HP, 1790RPM, 3PH, 60HZ, 447T, A4496M, TEFC

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

Division - Division II

Specifications

Enclosure	TEFC
Frame	447T
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	Mobil SHC 220 (Athens Only)
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
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 1 AWG

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG6732
Layout	617439-176
Eff. date	12-26-2024
CD Diagram	416820-036
Poles	04
Leads	3#1 Y
Proprietary	False
Created date	09-18-2023

Motor Standards	NEMA
Motor Type	A4496M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.97 IN
Power Factor	85
Product Family	General Industrial
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 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	
MOBILITH SHC 220	

NP4562L

CAT NO	SPM4406TR-4	SPEC NO.	A44-5000-6732	I.P.	55				
HP	150	AMPS	173	VOLTS	460	DESIGN	A		
FRAME SIZE	447T	RPM	1790	MAX RPM	2700	HZ	60	AMB	40
D.E. BRG.	110RU02M30X	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			

DUTY MASTER ALTERNATING CURRENT MOTORS

617439-176

ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-1

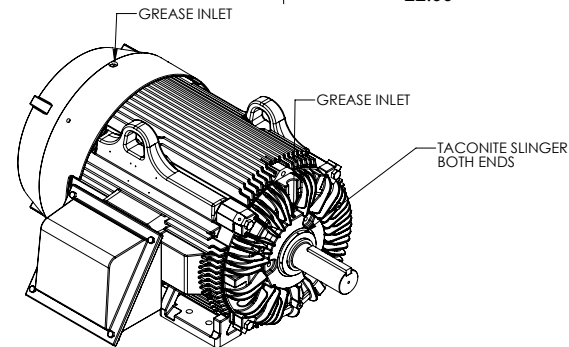
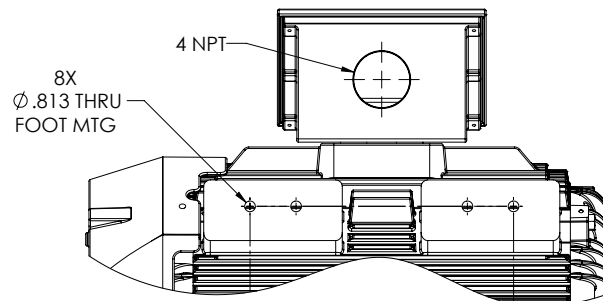
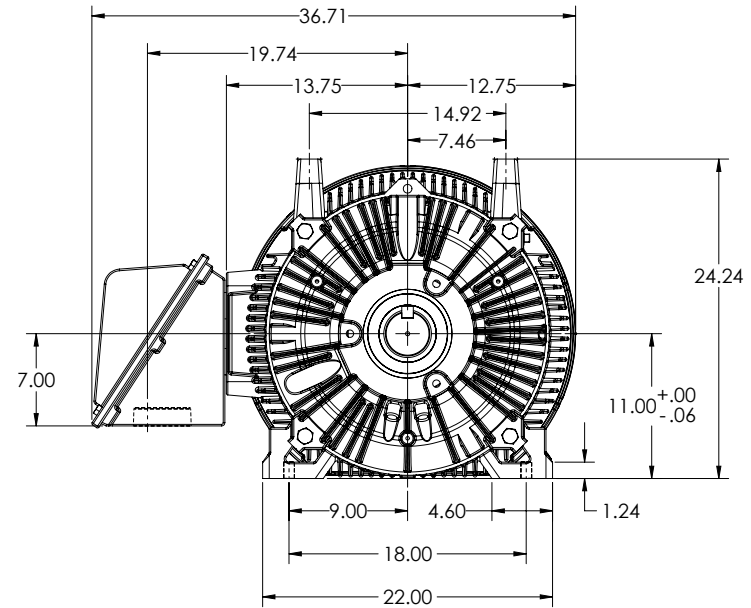
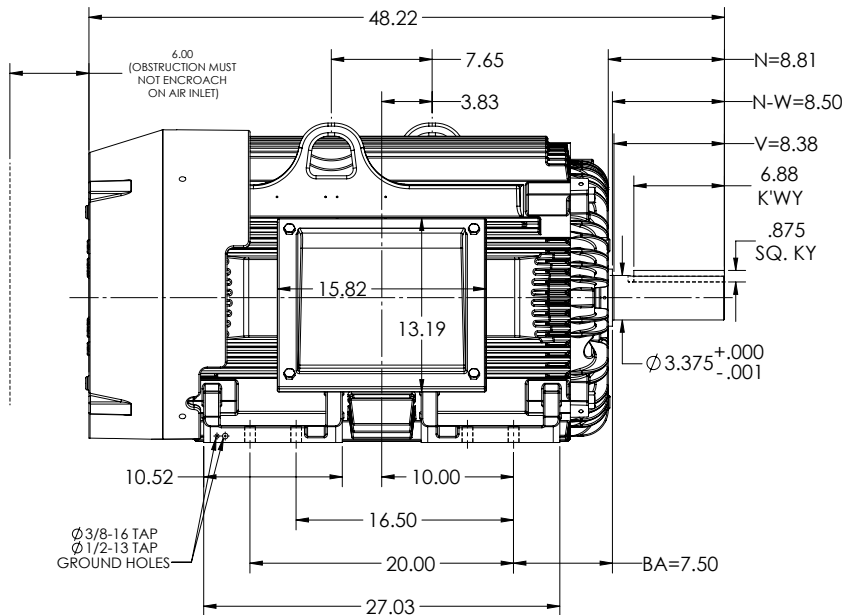
SQUIRREL-CAGE INDUCTION

FRAME G447T

 INCLUDES G445T FRAME MOUNTING HOLES
WITH TACONITE SLINGERS

COOLING: FAN COOLED

ENCLOSURE ENHANCEMENT: SEVERE DUTY


 WEIGHT= 2515 LBS $\pm 1.5\%$ DEPENDING ON RATING.

DIMENSIONS ARE IN INCHES

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

REV. DESC: UPDATE D'S TO SHOW CORRECT BA OF 7.50

REV: A	VERSION: 01	REVISED: 10-19-02 11/20/2024	TDR: 000001245079
MODEL NO. 617439-176		REF:	
BY: USJOSUL		Material:	

BALDOR

G447/445T TEFC F1 FT CAST IRON BOX BEARING DIV 2 CL 2

 SHEET NUMBER
1 OF 1
 9/L1-662/L19

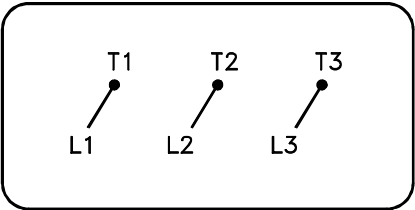
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

 MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003 T.I.R.

617439-176

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