

ABB BALDOR RELIANCE III

Customer information packet

SPM44252TS-4

250HP, 3575RPM, 3PH, 60HZ, 449TS, A44144M, TEF

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

Division - Division II

Specifications

Enclosure	TEFC
Frame	449TS
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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	264.000 A @ 460.0 V
Design Code	B
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	264.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	4200 rpm
Motor Lead Quantity/Wire Size	6 @ 3/0 AWG
Motor Standards	NEMA

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5859
Layout	617439-177
Eff. date	01-22-2025
CD Diagram	416820-036
Poles	02
Leads	3#3/0 (02 per group)
Proprietary	False
Created date	12-18-2024

Motor Type	A44144M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	49.72 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

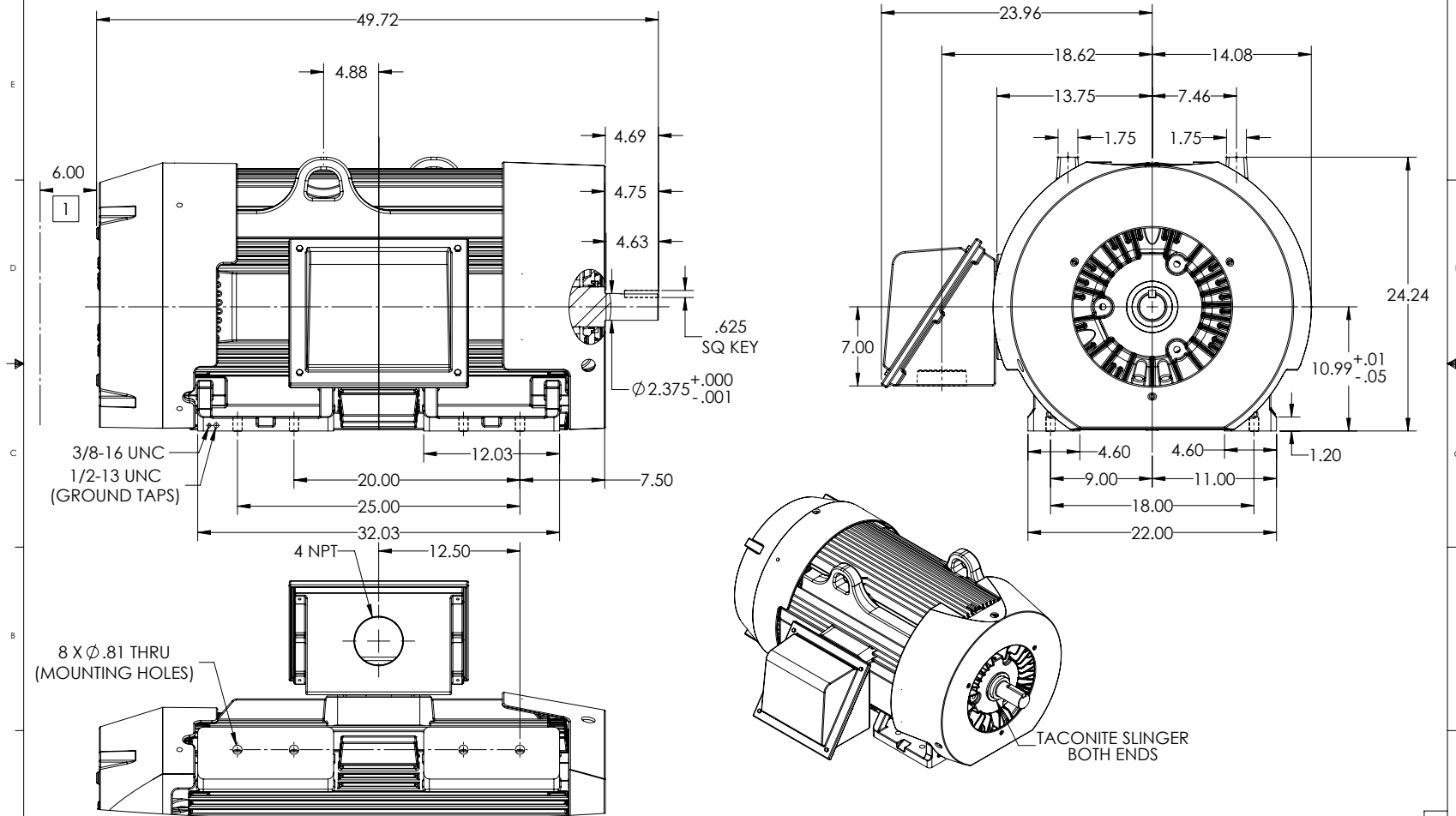
NP2496L	
MOBIL POLYREX EM	

NP4562L

CAT NO	SPM44252TS-4	SPEC NO.	A44-5011-5859	I.P.	55				
HP	250	AMPS	264	VOLTS	460	DESIGN	B		
FRAME SIZE	449TS	RPM	3575	MAX RPM	4200	HZ	60	AMB	40
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	19	NEMA NOM EFFICIENCY	96.2	MOTOR WEIGHT		LBS	
CL.I,DIV 2,GRP:	A,B,C,D	T.CODE	T2D	CL.1,ZONE 2,GRP:		IIA,IIB,IIC	T= 215	INVERTER T.CODE	T2C
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 70	
ID LOGO	1.0 SF VPWM	WK2	36.8	LBFT2	SL HZ	0.44	MAG CUR	52.2	
SER.NO.		MEETS INTENT OF IEEE-45				FOR WEATHER PROTECTION			

617439-177

ENCLOSURE ENHANCEMENT: SEVERE DUTY



DIMENSIONS ARE IN INCHES.
WEIGHT (LBS.) 3045. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATE DRAWING DESC.			
REV: A	VERSION: 01	REVISED: 01:07:36 11/22/2024	TDR: 000001245255
MODEL NO. 617439-177			
BY: USJOSUL			

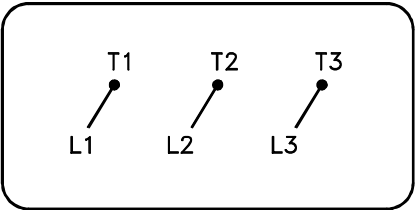
BALDOR

SHEET NUMBER
1 OF 1

1 OF 1
67-1739-19 IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

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