



Product Information Packet

EM44306T-4

300HP,1190RPM,3PH,60HZ,L449T,TEFC,F1

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	A44WG4970	CD Diagram:	416820-036	Mfg Plant:	
Mech. Spec:		Layout:	617423-200	Poles:	06	Created Date:	04-09-2015
Base:		Eff. Date:	03-01-2017	Leads:	3#2/0 (02 per group)		

Specs			
Catalog Number:	EM44306T-4	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	L449T	Inverter Code:	Inverter Ready
Frame Material:	Iron	IP Rating:	NONE
Output @ Frequency:	300.000 HP @ 60 HZ	KVA Code:	G
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 2/0 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Type:	A44208M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	86
Agency Approvals:	CCSA US	Product Family:	General Industrial
	CSA EEV	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Base Indicator:	Rigid	Shaft Ground Indicator:	No Shaft Grounding
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Rotation:	Reversible
Current @ Voltage:	340.000 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line

Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Frame Prefix:	L	Thermal Device - Winding:	None

Nameplate NP2496L

MOBIL POLYREX EM

Nameplate NP2349L

SPEC NO.	A44-7111-4970			CAT.NO.	EM44306T-4			FRAME	L449T		
HP	300		VOLTS	460		PHASE	3	DESIGN	B	TYPE	P
RPM	1190	AMPS	340			HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	110BC02J30X			DUTY	CONT		INSUL.CLASS	F			
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC		CODE	G			
SER.NO.				POWER FACTOR	86		NEMA-NOM-EFFICIENCY	95.8			
						MAX CORR KVAR	61		GUARANTEED EFFICIENCY 95		
						NEMA NOM/CSA QUOTED EFF					
						MOTOR WEIGHT			3683		

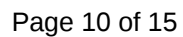
Parts List		
Part Number	Description	Quantity
SA299256	SA A44-7111-4970	1.000 EA
RA286270	RA A44-7111-4970	1.000 EA
421948051	LABEL, MYLAR	1.000 EA
NP2496L	MOTOR LUBE NAMEPLATE	1.000 EA
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 EA
000692000FF	N/P	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
NP2349L	SUPER-E ,SS, CSA, CSA SUPER-E	1.000 EA
089490099A	G28 BRKT 089490098WCA KB	1.000 EA
083199082RA	G28 SHORT FAN COVER W/BAFFLE ASSEMBLY	1.000 EA
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 EA
412118006A	DRAIN	1.000 EA
702618004T	FAN KB 182/70 (112) 440	1.000 EA
004824015A	GREASE POLYREX EM	1.160 LB
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
415045002A	SLGR	1.000 EA
410700004A	WSHR	1.000 EA
034017014AB	LCKW 3/8 STD. PLATED	4.000 EA
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 EA
034690005AB	PPLG 3/4 PLATED	2.000 EA
034690002AB	PPLG 1/4" PLTD.	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
034630002AB	CPLG 1/4" PLATED	1.000 EA
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 EA
032620016LA	SOCKET SET SCREW-449	3.000 EA
702623022A	G28 AIR DEFLECTOR DRIVE END -- PLASTIC	1.000 EA
418151014H	RETAIN RING	1.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 EA
034690002AB	PPLG 1/4" PLTD.	1.000 EA
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 EA
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 EA
034017013AB	LCKW 5/16 STD. PLATED	3.000 EA
089490101A	G28 BRKT 089490100WCA	1.000 EA
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 EA
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 EA
415045002D	SLGR - 440	1.000 EA
412118006A	DRAIN	1.000 EA
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 EA
034017013AB	LCKW 5/16 STD. PLATED	3.000 EA
034001013AB	FLTW BAFFLE	3.000 EA
415915007G	GASK, LAC	1.000 FT
406056008A	GASKET, TERBD 440	1.000 EA
415039027A	GASKET, G28 LEAD THROAT	1.000 EA

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418150003A	GREASE FITTING CAP	1.000 EA
032018008DK	HHCS 1/2-13X1 PLATED	4.000 EA
702616012T	CONDUIT BOX	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
415030115A	G28 C/BOX 415030114WCA	1.000 EA
032130014DB	HSHCS1/2-13X1-3/4 PLATE	4.000 EA
034000016AB	WSHR .531ID 1.062OD .095	4.000 EA
MG1025Y17	WILKOFAS, 789.701, SUPER E PEARL GOLD	0.500 GA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180054KA	KEY 7/8X7/8X6-3/4 L	1.000 EA
604797056	400-447 FRAME 60 X 42	1.000 EA
032510026D	CARRIAGE BOLT - 440	2.000 EA
034001016AB	WSHR .562ID 1.375OD .109	2.000 EA
034001014AB	FLAT WASHER 3/8"PLATED	2.000 EA
033300014AC	HEX NUT, SHIPPING - 400	2.000 EA
604799003C	PLASTIC BAG 42X32X46	1.000 EA

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	300	P	3/60	1190	460
AMPS	DUTY	AMB ^{°C} / INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
340	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
401936	418143-087-SE	---	---	.0136		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR	% EFFICIENCY	
NO LOAD	0	86.8	1200	4.07	0	
1/4	75.1	119	1197	62.6	94.6	
2/4	150	180	1195	81.1	96.3	
3/4	225	256	1192	85.3	96.4	
4/4	300	340	1189	86.0	96.1	
5/4	375	426	1186	86.1	95.5	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	167	2214	2200		
PULL UP	500	130	1726	1948		
BREAKDOWN	1148	247	3273	1232		
FULL LOAD	1189	100	1324	340		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: CALCULATED DATA XE MOTOR NEMA NOM EFF 95.8 PCT GUAR MIN EFF 95 PCT						
		DR. BY _____ CK. BY _____ T. RELIANT DATE 11/08/2013		A-C MOTOR PERFORMANCE DATA A44WG4970-R002 ISSUE DATE 11/08/20		
A MEMBER OF THE ABB GROUP						



DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

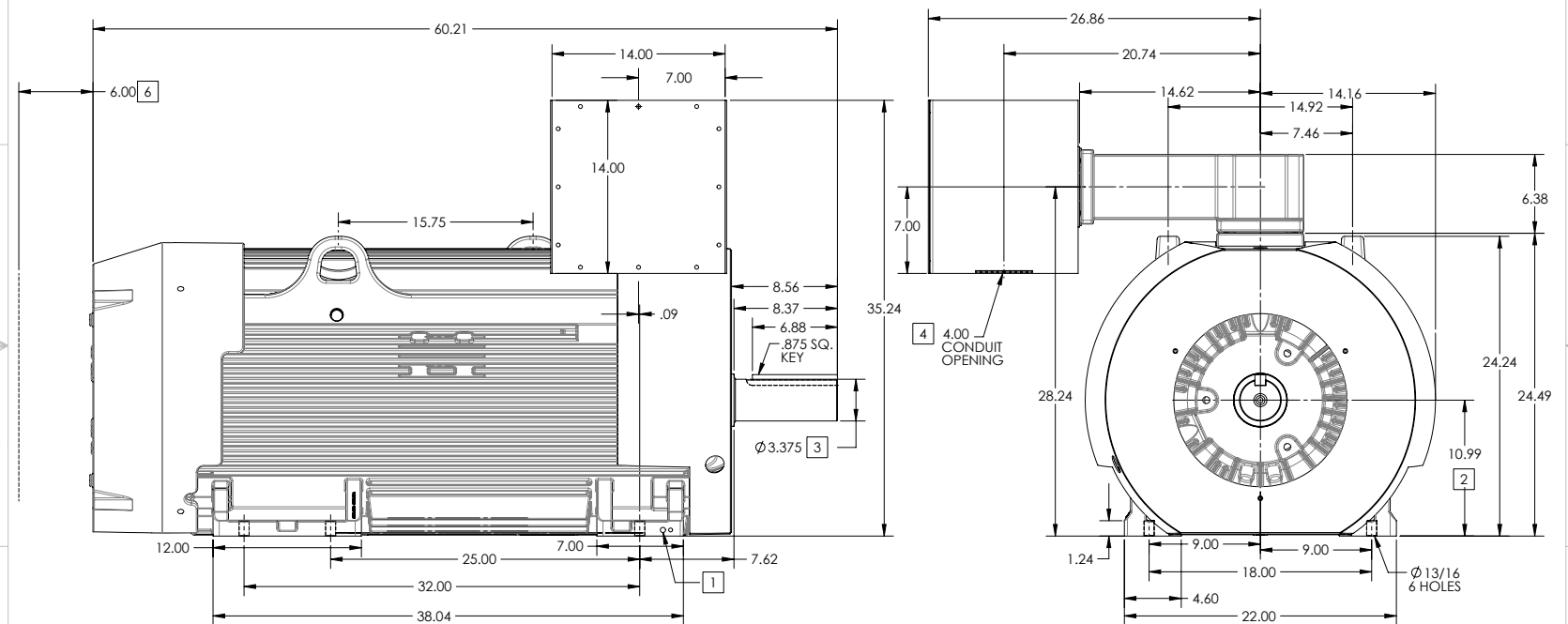
ENCLOSURE: TOTALLY ENCLOSED

FRAME GL449T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES G449T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00-.06
3. VARIES +.000-.001
4. FABRICATED STEEL CONDUIT BOX WITH AN OPENING FOR CONDUIT.
5. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
6. 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.

WEIGHT (LBS): 3875

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.

REV. DESC: NEW DRAWING			
REV. -	VERSION: 00	REVISED: 12/31/00 09/22/2014	TDR: 000000871203
MODEL NO. 617423-200		REF:	
BY: RAGEC	Material:		

BALDOR

DEM SHEET GL449T/449T FOOT MOUNTED HORIZONTAL 14X14X12 CBX

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

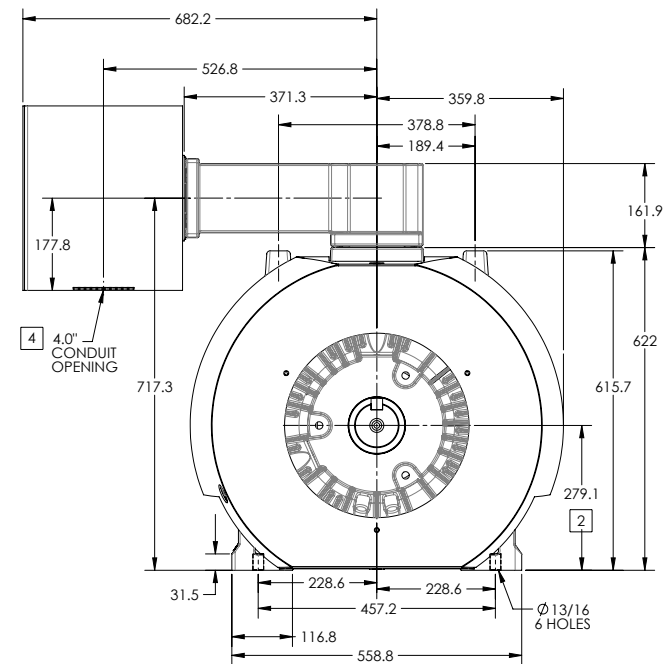
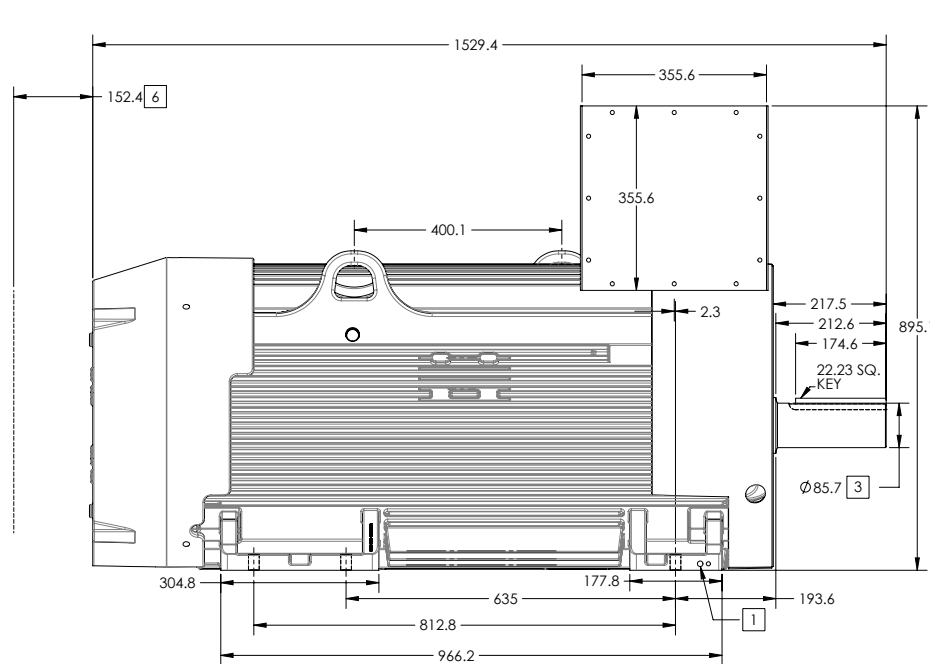
ENCLOSURE: TOTALLY ENCLOSED

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6. 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.

WEIGHT (KGS): 1760

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.

REV. DESC: NEW DRAWING	VERSION: 00	REVISED: 12/31/00 09/22/2014	TDR: 000000871203
MODEL NO. 617423-200	BY: RAGEC	Material:	REF:

BALDOR

DIM SHEET GL449T/449T FOOT MOUNTED HORIZONTAL 14X14X12 CBOX

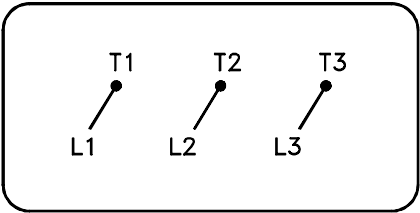
416820-036

A-C MOTOR

CONNECTION DIAGRAM

STANDARD 3 LEAD

CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR CONN DIAG - STANDARD 3 LEAD SH 1 of 1
REV. LTR: -	VERSION: 00	TDR: 000000538207	
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MTL: -		BY: RAGRA	

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<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>