



Customer information packet

A44-1670-4105

100HP, 1190RPM, 3PH, 60HZ, 444T, A44064M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	95.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	95.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44064M

Part detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A44WG4105
Layout	617423-067
Eff. date	03-10-2021
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	10-28-2011

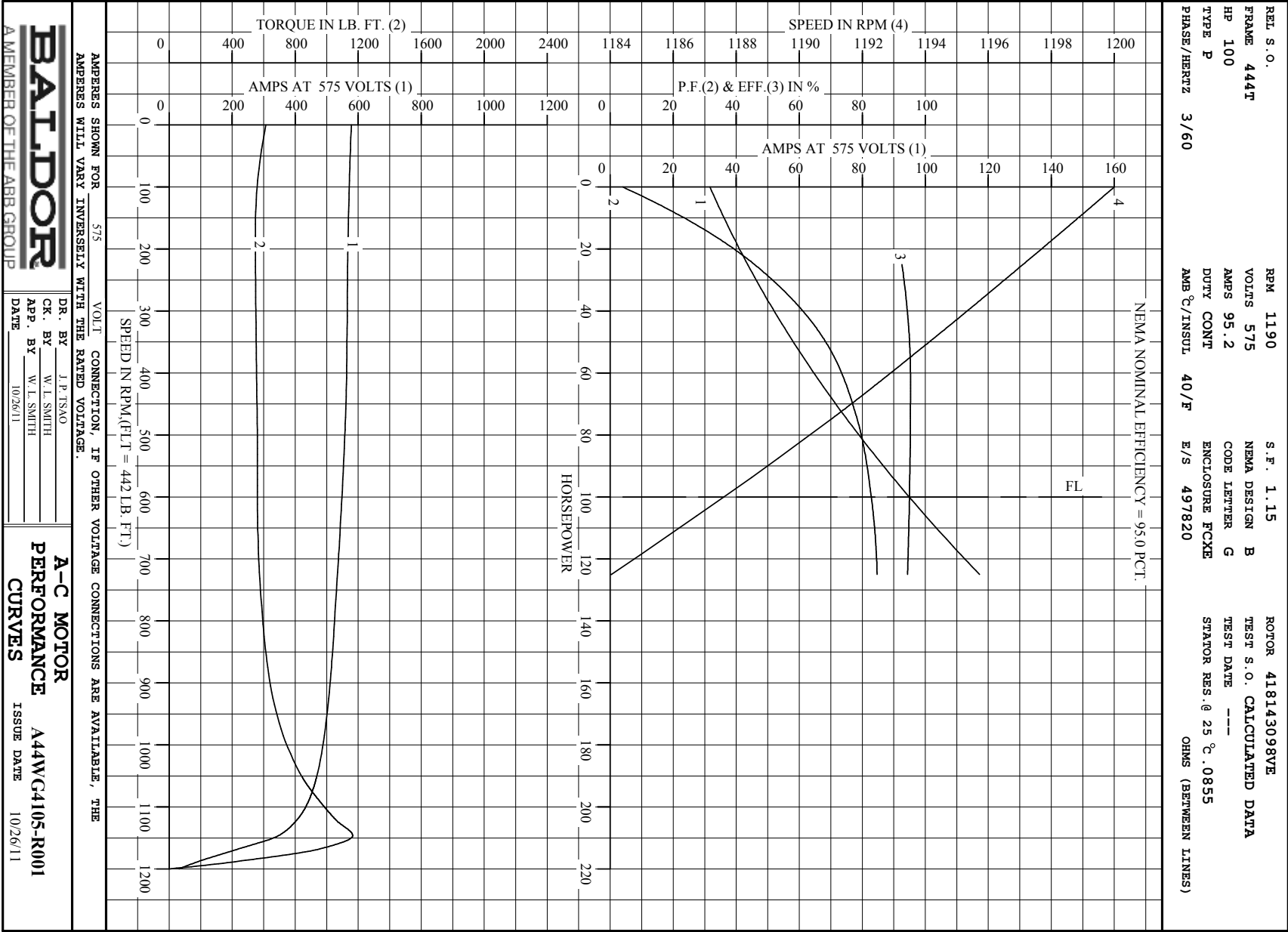
Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.75 IN
Power Factor	82
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP2443L

SPEC NO.	A44-1670-4105			CAT.NO.						FRAME	444T
HP	100	VOLTS	575	PHASE	3	DESIGN	B	TYPE	P		
RPM	1190	AMPS	95.2	HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	90BC03J30X			DUTY	CONT	INSUL.CLASS		F			
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC	CODE	G				
SER.NO.				POWER FACTOR		82	NEMA-NOM-EFFICIENCY			95	
						MAX CORR KVAR		27.0	GUARANTEED EFFICIENCY		94.1
	FJ INSUL					NEMA NOM/CSA QUOTED EFF					
						MOTOR WEIGHT					



REL. S.O.	FRAME 444T	HP 100	TYPE P	PHASE/ HERTZ 3/60	RPM 1190	VOLTS 575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
95.2	CONT	40/F	1.15	B	G	FCXE
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
497820	418143098VE	---	---	.0855		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	31.5	1200	4.00	0	
1/4	25.0	44.2	1197	45.8	92.6	
2/4	50.0	57.7	1194	68.4	95.0	
3/4	75.0	75.2	1191	78.4	95.3	
4/4	100	95.2	1188	82.9	95.0	
5/4	125	117	1184	84.7	94.4	
SPEED TORQUE						
	RPM	% TORQUE FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	139	614	578		
PULL UP	168	124	548	568		
BREAKDOWN	1146	263	1165	347		
FULL LOAD	1188	100	442	95.2		
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: CALCULATED DATA NEMA NOMINAL EFFICIENCY = 95.0 PCT.						
BALDOR A MEMBER OF THE ABB GROUP			DR. BY J. P. TSHO CK. BY W. L. SMITH APP. BY W. L. SMITH DATE 10/26/11		A-C MOTOR PERFORMANCE DATA A44WG4105-R001 ISSUE DATE 10/26/11	

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

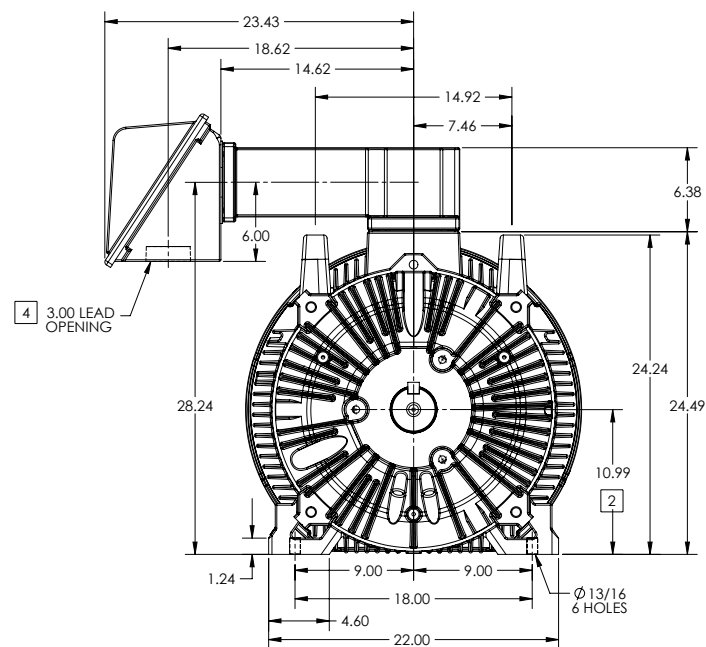
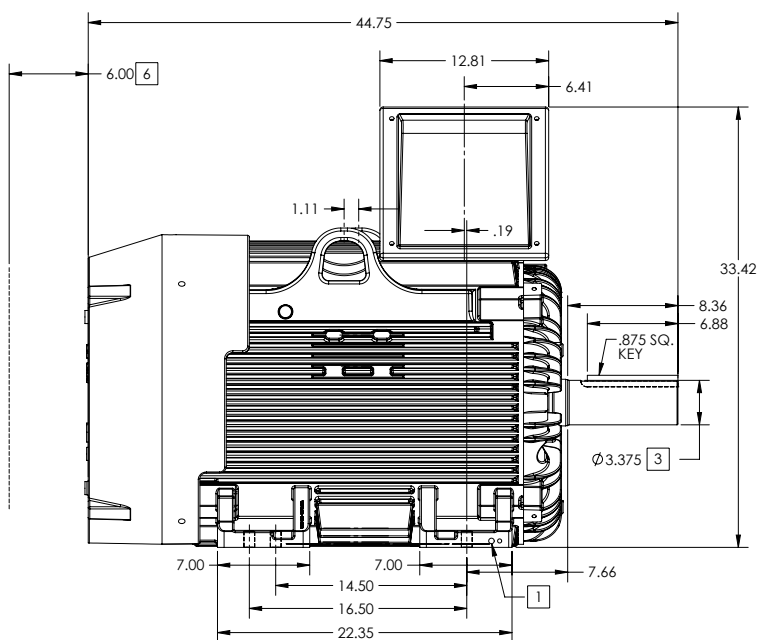
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T 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. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NOT 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): 2200

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 INITIAL RELEASE			
REV. -	VERSION: 00	REVISED: 09-19-03 05/13/2011	TDR: 000000594808
MODEL NO. 617423-067			REF:
BY: MGH/TLC	Material:		

BALDOR

DIM SHEET G445TG444T, STD C-BOX 078863-000C

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

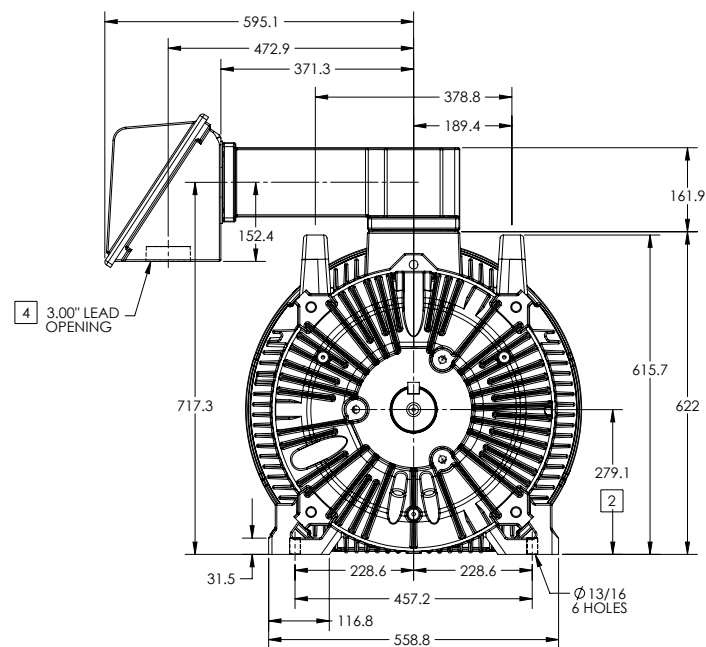
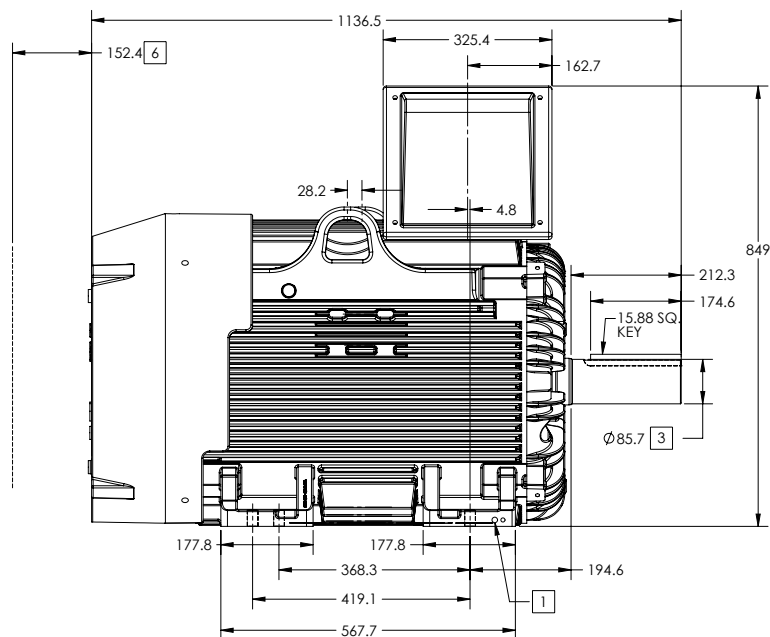
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T 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. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
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 .08 MM T.I.R. TO 127 MM DIA.

WEIGHT (KGS): 1000

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.

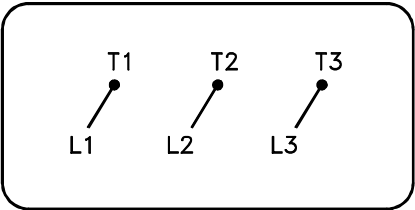
REV. DESC INITIAL RELEASE	
REV: -	VERSION: 00
MODEL NO. 617423-067	REF:
BY: MGH/LC	Material:

BALDOR

DIM SHEET G445TG444T, STD C-BOX 078863-000C

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