

ABB BALDOR RELIANCE III

Customer information packet OF4404T

75HP, 1130RPM, 3PH, 60HZ, 444T, A4488M, TEFC, F

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	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 796.0 V @ 60 HZ
Agency Approvals	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	51.500 A @ 796.0 V 89.200 A @ 460.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	51.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 4 AWG

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A44WG3741
Layout	617427-007
Eff. date	02-05-2019
CD Diagram	416820-004
Poles	06
Leads	6#4
Proprietary	False
Created date	08-21-2012

Motor Standards	NEMA
Motor Type	A4488M
Mounting Arrangement	F2
Number of Poles	6
Overall Length	40.98 IN
Power Factor	88
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	1130 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	Drive End
Thermal Device - Winding	None

Nameplate

NP2531L											
CAT.NO.					SPEC NO.	P44G3989				FRAME	444T
HP	75		PHASE	3	DESIGN	D	TYPE	P			
RPM	1130		HZ	60	AMB	40	SF	1.15			
VOLTS	460/796	DUTY	CONT		INSUL.CLASS			F			
AMPS	89.2/51.5		ENCL	TEFC	CODE	G					
DRIVE END BEARING	90BC03J30X		NEMA-NOM-EFFICIENCY					88.5			
OPP D.E. BEARING	90BC03J30X										
SER.NO.					MOTOR WEIGHT						

Accessories

Part number	Description	Multiplier
18-1302	C-FACE KIT FOR T CONVERTS T TO TC	
18EP1500A01SP	D-FLANGE KIT	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	444T	75	P	3/60	1130	460/796		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
89.2/51.5	CONT	40/F	1.15	D	G	TEFC		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
497782	418143-69-DA	---	---	.0652/.195				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	15.5	1200	8.64	0			
1/4	18.8	19.8	1184	59.2	86.8			
2/4	37.5	28.3	1168	79.4	90.4			
3/4	56.2	38.9	1151	86.4	90.5			
4/4	75.0	51.6	1132	87.9	89.4			
5/4	93.7	65.5	1112	88.2	87.8			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	246	855	301			
PULL UP		0	246	855	301			
BREAKDOWN		810	294	1022	226			
FULL LOAD		1132	100	348	51.6			
AMPERES SHOWN FOR 796. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA								
		DR. BY	B.R. PENDLEY	A-C MOTOR PERFORMANCE DATA A44WG3741-R001 ISSUE DATE 03/08/21 Page 6 of 11				
		CK. BY	T. KELATI					
		APP. BY	T. KELATI					
		DATE	09/26/11					

REL S.O.

RPM 1130

S.F. 1.15

ROTOR 418143-69-DA

FRAME 444T

VOLTS 460/796

NEMA DESIGN D

TEST S.O. TYPICAL DATA

HP 75

AMPS 89.2/51.5

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

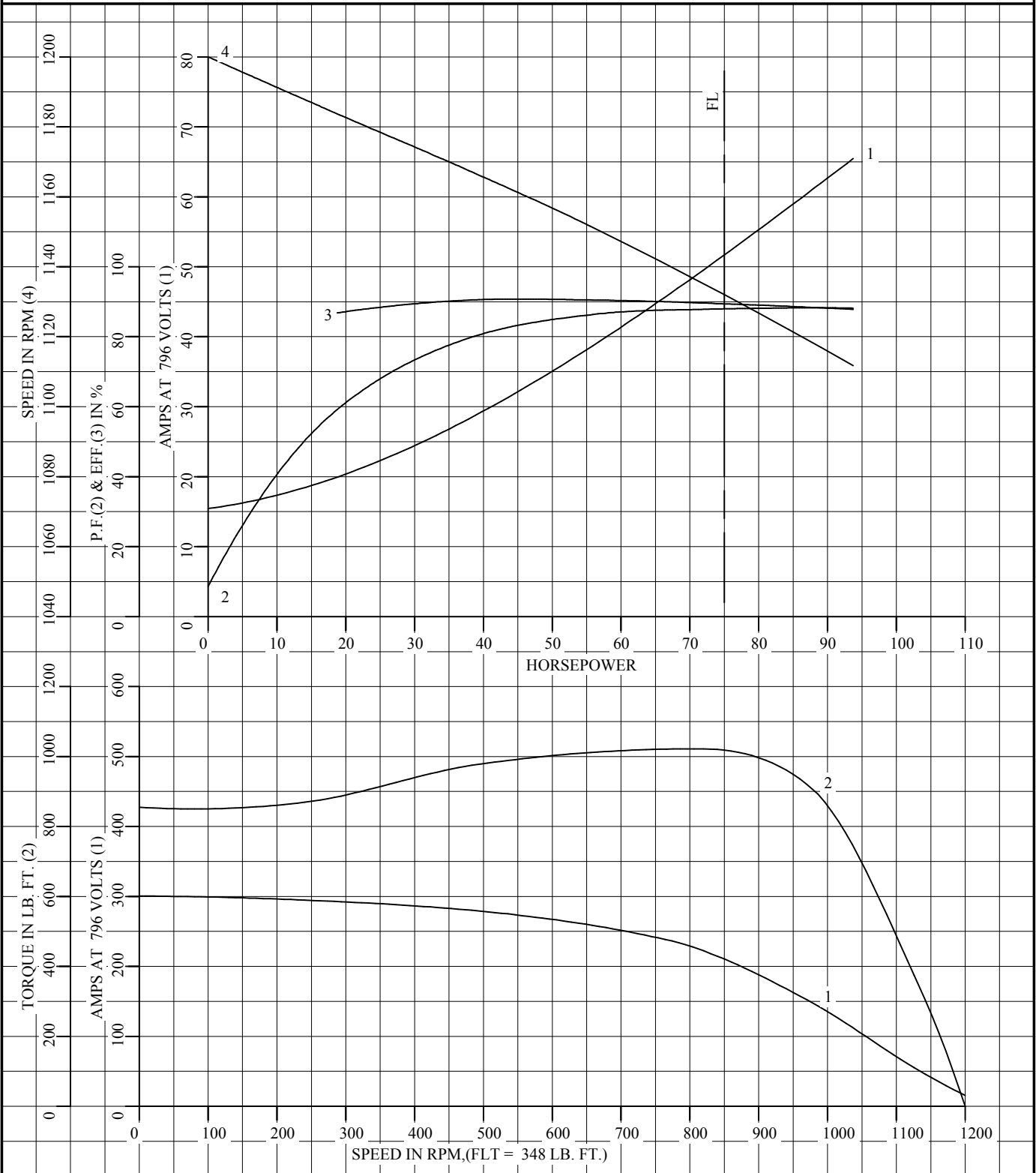
STATOR RES. @ 25 °C .0652/.195

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 497782

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 796 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY B.R.PENDLEY
CK. BY T. KELATI
APP. BY T. KELATI
DATE 09/26/11

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG3741-R001

ISSUE DATE 03/08/21

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REL. S.O.

FRAME **444T**

HP **75**

TYPE **P**

PHASE/HERTZ **3/60**

RPM **1130**

VOLTS **460/796**

AMPS **89.2/51.5**

DUTY **CONT**

AMB °C/INSUL **40/F**

S.F. **1.15**

NEMA DESIGN **D**

CODE LETTER **G**

ENCLOSURE **TEFC**

E/S **497782**

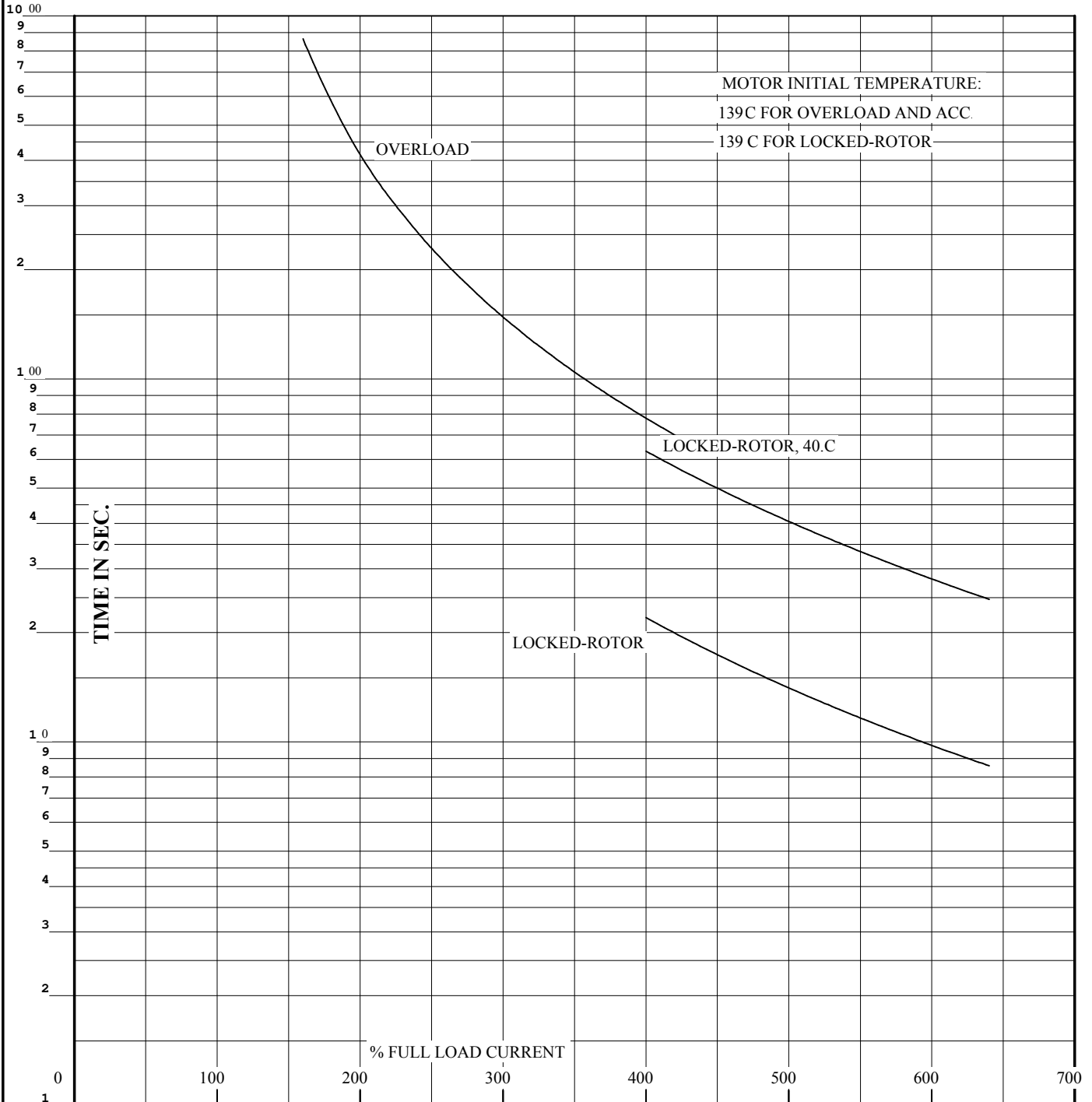
ROTOR **418143-69-DA**

TEST S.O. **TYPICAL DATA**

TEST DATE **---**

STATOR RES. @ 25 °C **.0652/.195**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

AMPERES SHOWN FOR 796 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DR. BY B.R.PENDLEY
CK. BY T. KELATI
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**A-C MOTOR
PERFORMANCE
CURVES**

A44WG3741-R001

ISSUE DATE 03/08/21 Page 8 of 11

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

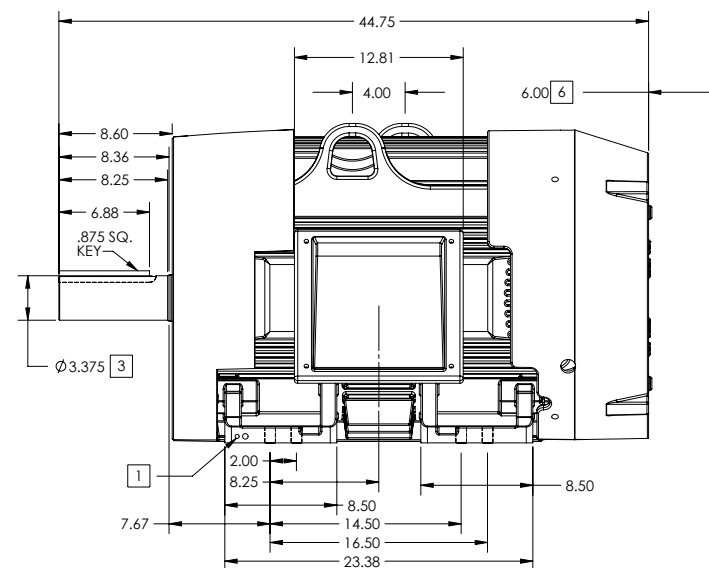
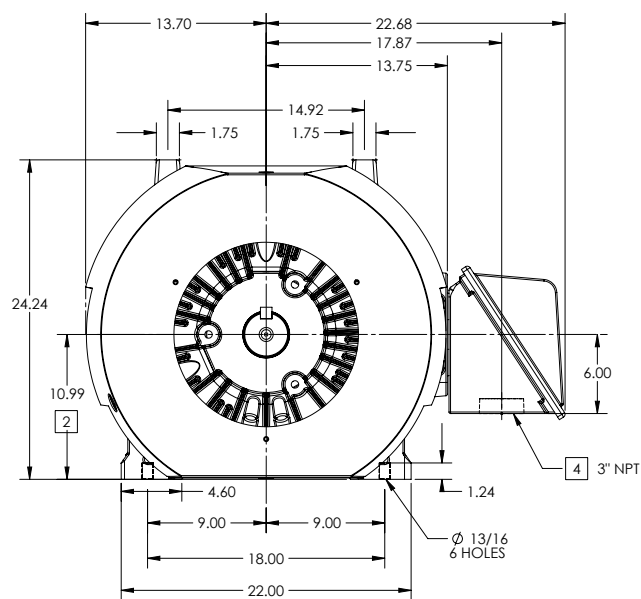
ENCLOSURE: TOTALLY ENCLOSED

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 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-1.
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.

[5] WEIGHT (LBS): 2150

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.

SHEET NUMBER
1 OF 2
L00P-LCP-119

REV. DESC INITIAL RELEASE			
REV: -	VERSION: 00	REVISED: 11-00-02 09/12/2012	TDR: 000000769644
MODEL NO. 617427-007		REF:	
BY: RAGTBM		Material:	

BALDOR

G445T/444T STD - FOOTED - SIDE/CENTER C/B - F2 MOUNT

617427-007

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

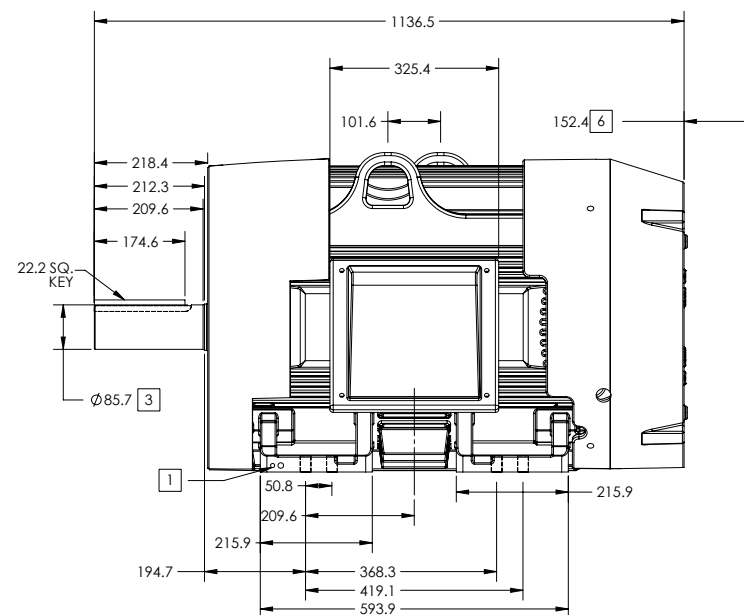
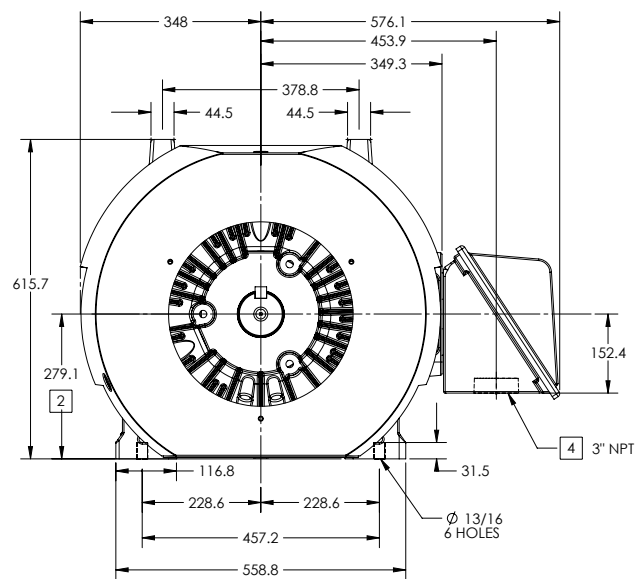
ENCLOSURE: TOTALLY ENCLOSED

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-1.
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.

[5] WEIGHT (KGS): 975

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 2 FOR DIMENSIONS IN INCHES

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

 SHEET NUMBER
2 OF 2

600-CCFL19

REV. DESC. INITIAL RELEASE			
REV: -	VERSION: 00	REVISED: 11-00-02 09/12/2012	TDR: 000000760644
MODEL NO. 617427-007		REF:	
BY: RAGTBM		Material:	

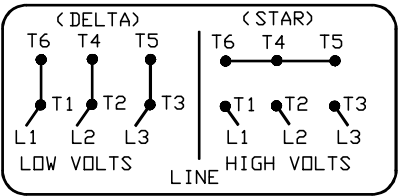
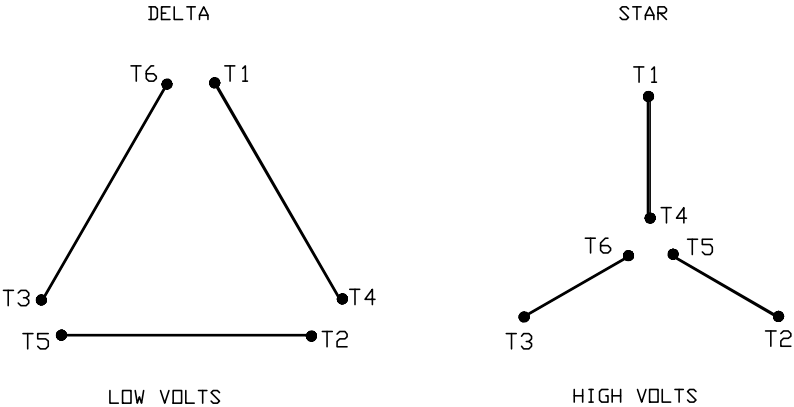
BALDOR

G445T/444T STD - FOOTED - SIDE/CENTER C/B - F2 MOUNT

617427-007

416820-004

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 6 LEAD < DELTA/STAR CONNECTED >
DUAL VOLTAGE < LOW VOLTS/HIGH VOLTS >



< N. P. 1767-CC >

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: C	VERSION: 03	TDR: 000001009406
FILE: \RSN\00017\950	REVISED: 10:55:03 12/21/2016	BY: MGHMTT
MTL: -	© □	

BALDOR

A-C MOTOR CONNECTION DIAGRAM
SH 1 of 1

416820-004