

ABB BALDOR RELIANCE III

Customer information packet

ECR92004T-4

200HP, 1785RPM, 3PH, 60HZ, 447T, A44106M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	447T
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	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	225.000 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	225.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	No Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5112
Layout	617427-355
Eff. date	02-26-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	02-06-2015

Motor Type	A44106M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	48.24 IN
Power Factor	87
Product Family	Crusher / Chipper
Pulley End Bearing Type	Ball
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007PV															
CAT NO	ECR92004T-4			SPEC NO.		P44G1812									
HP	200	AMPS		225		VOLTS		460		DESIGN		A			
RPM	1785	RPM MAX		3600		HZ		60	AMB		40	SF	1.15		
D.E. BRG.DATA	6318		O.D.E. BRG.DATA				6318		PH	3	DUTY		CONT	INSUL.CLASS	F
FRAME	447T		I.P.		55	TYPE		P	ENCL		TEFC	CODE		H	
POWER FACTOR	87		3/4 LOAD EFF.				96.4		NEMA NOM EFFICIENCY				96.2		
CHP HZ	60-90		CT HZ		15-60		VT HZ		6-60						
SER.NO.					MOTOR WEIGHT										
	VPWM INVERTER DUTY														

NP2496L	
MOBIL POLYREX EM	

CUSTOMER INFORMATION PACKET ECR92004T-4 - 200HP, 1785RPM, 3PH, 60HZ, 447T, A44106M, TEFC						
FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS	
447T	200	P	3/60	1785	460	

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
225	CONT	40/F	1.15	A	H	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)	
-	418143034VE	---	---	.0160	

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	62.2	1800	4.61	0
1/4	50.0	82.7	1797	60.5	93.7
2/4	100	122	1793	79.7	95.9
3/4	150	171	1790	85.0	96.3
4/4	200	225	1786	86.5	96.2
5/4	250	280	1782	87.2	95.9

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	244	1436	1669
PULL UP	1450	198	1162	1187
BREAKDOWN	1733	253	1490	762
FULL LOAD	1786	100	588	225

AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

CALCULATED DATA
XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

FRAME 447T

RPM 1785

S.F. 1.15

ROTOR 418143034VE

HP 200

VOLTS 460

NEMA DESIGN A

TEST S.O. CALCULATED DATA

TYPE P

AMPS 225

CODE LETTER H

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

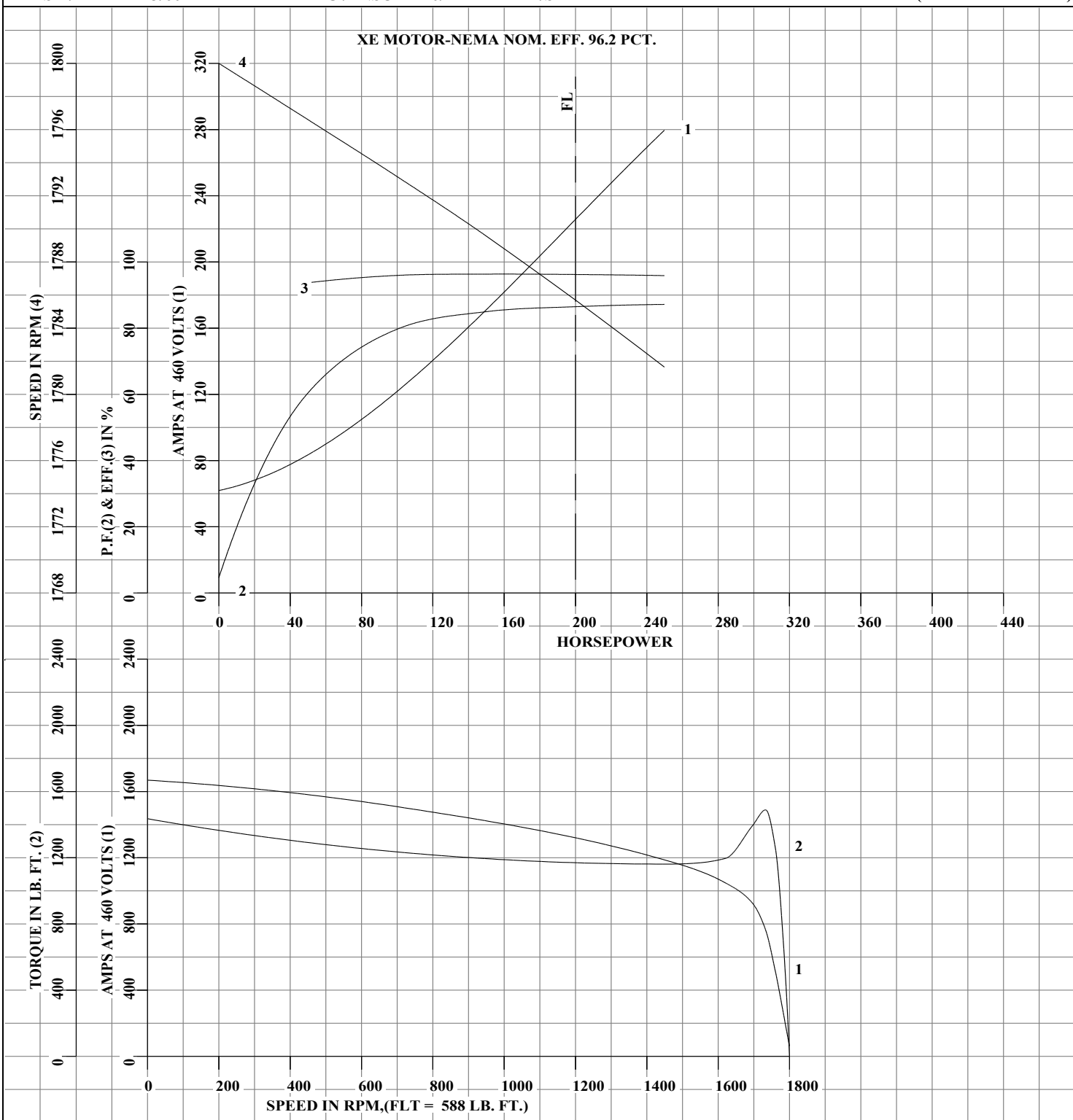
ENCLOSURE TEFC

STATOR RES. @ 25°C .0160

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

FRAME 447T

RPM 1785

S.F. 1.15

ROTOR 418143034VE

HP 200

VOLTS 460

NEMA DESIGN A

TEST S.O. CALCULATED DATA

TYPE P

AMPS 225

CODE LETTER H

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

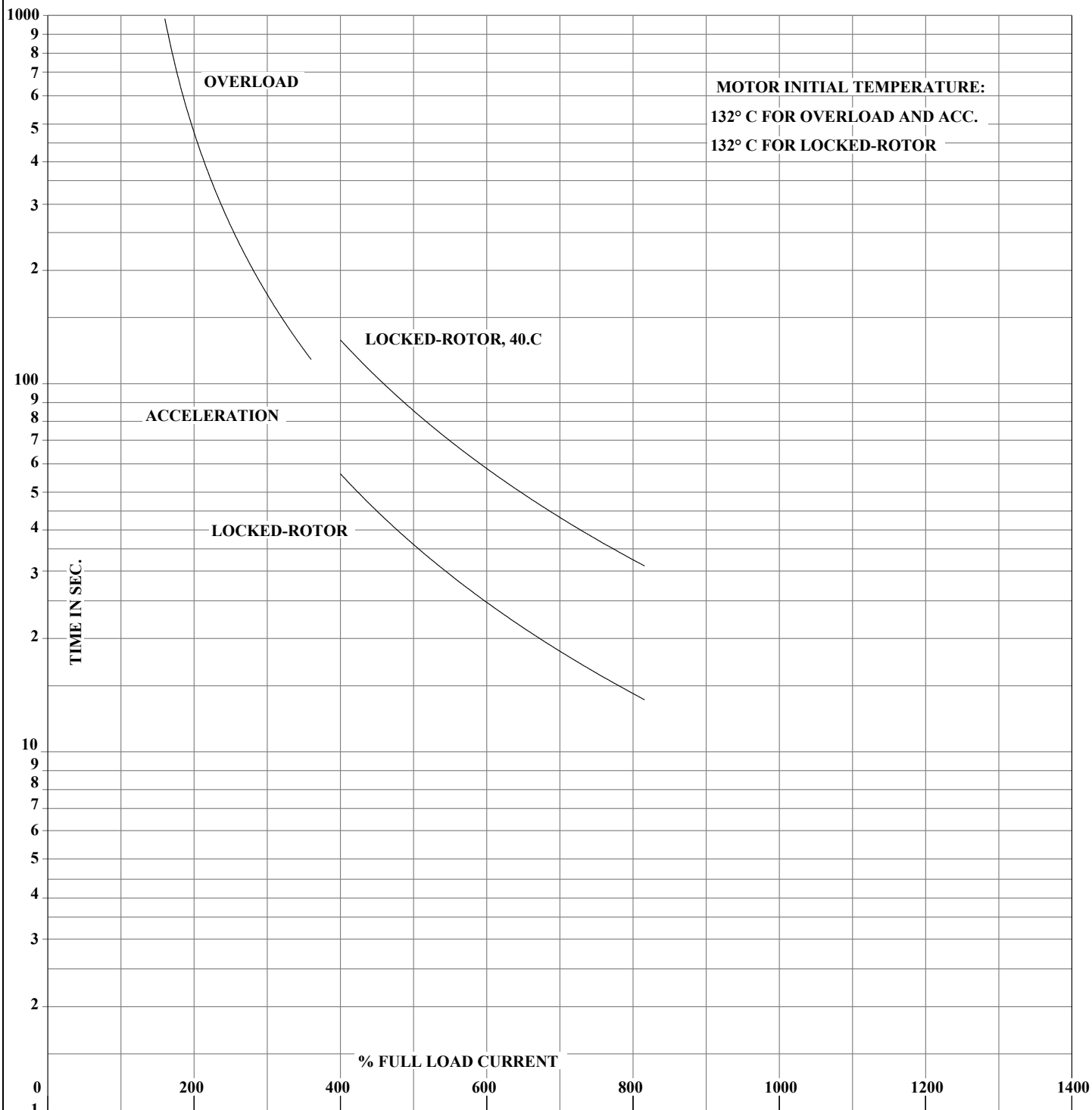
ENCLOSURE TEFC

STATOR RES. @ 25°C .0160

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

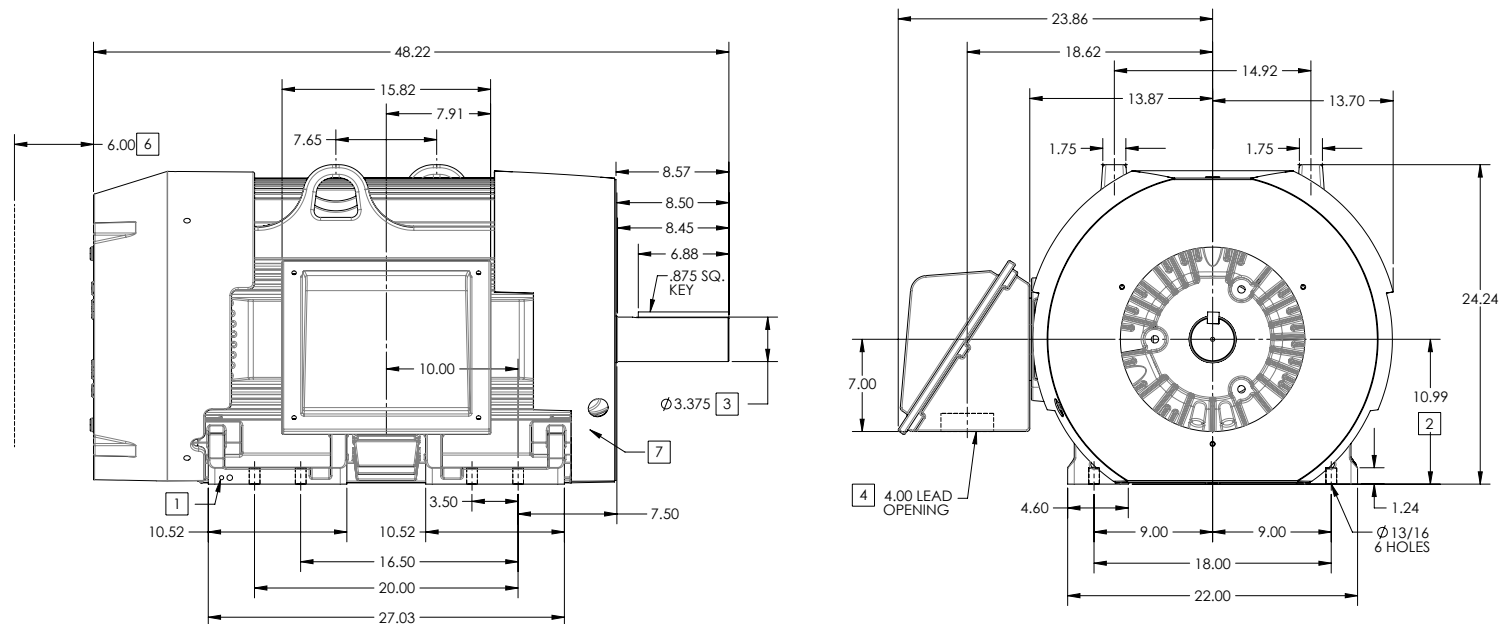
ENCLOSURE: TOTALLY ENCLOSED

FRAME G447T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES $\pm .00$, $-.06$
3. VARIES $\pm .000$, $-.001$
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.
7. AIR DEFLECTOR INSTALLED WHEN REQUIRED.

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.

[5] WEIGHT (LBS): 2515

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
SS5-27-119

REV. DESC: NEW ISSUE
REV: - VERSION: 00 REVISED: 04/29/05 (02/09/2015) TDR: 000000884510
MODEL NO. 617427-355 REF:
BY: RAGGDM Material:

BALDOR

G447T/445T STD FOOTED SIDE/CENTER C/B WITH AIR DEFLECTOR

617427-355

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

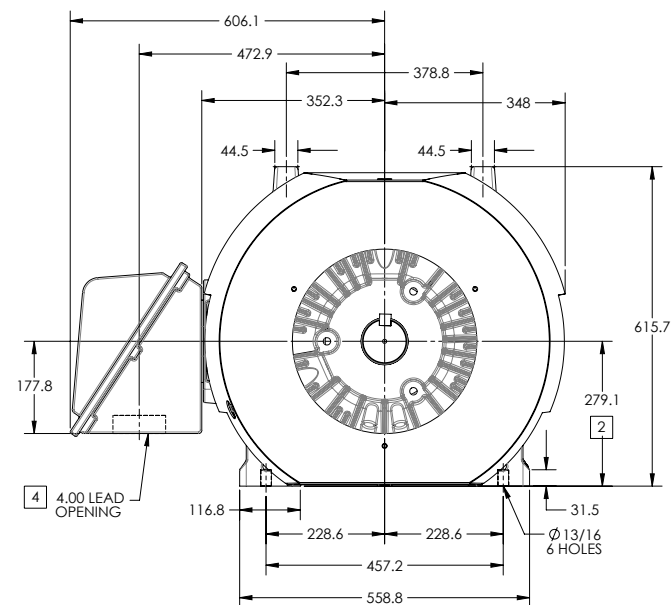
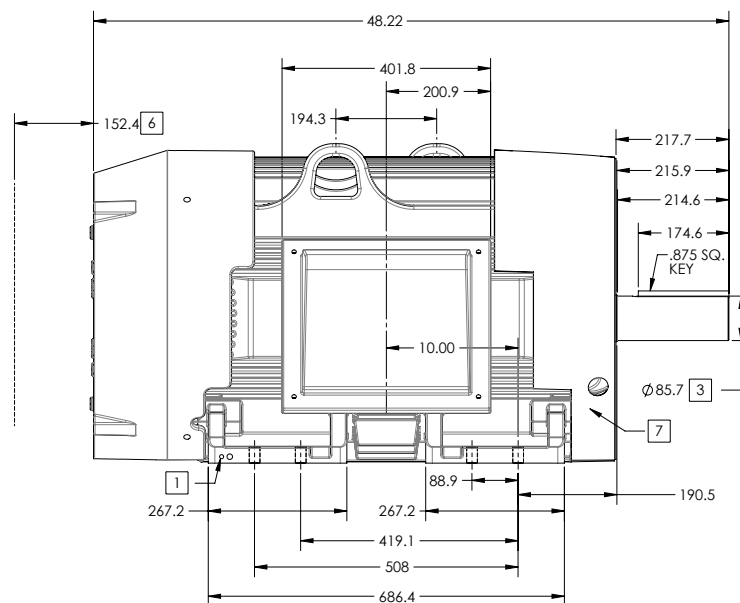
ENCLOSURE: TOTALLY ENCLOSED

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6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET.
7. AIR DEFLECTOR INSTALLED WHEN REQUIRED.

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.

[5] WEIGHT (KGS): 1140

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.

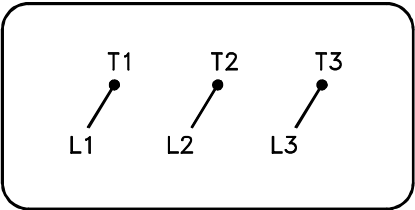
REV. DESC: NEW ISSUE			
REV: -	VERSION: 00	REVISED: 04/29/05 (02/09/2015)	TDR: 000000884510
MODEL NO. 617427-355		REF:	
BY: RAGGDM	Material:		

BALDOR

G447T/445T STD FOOTED SIDE/CENTER C/B WITH AIR DEFLECTOR

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