ABB BALDOR RELIANCE

Customer information packet

EM74154T-4

150//125HP, 1785//1485RPM, 3PH, 60//50HZ, 44
Class - CLI GP C,D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	TEFC
Frame	447T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	150.000 HP @ 60 HZ
	125.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CCSA US
	CSA
	UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	166.000 A @ 380.0 V
	164.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	164.0 a

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	NLA/A
Elec. spec.	A44WG1180
Layout	617426-173
Eff. date	08-20-2026
CD Diagram	416820-036
Poles	04
Leads	3#2/0
Proprietary	False
Created date	04-22-2015

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44106M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	48.22 IN
Power Factor	89
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1485 rpm
	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

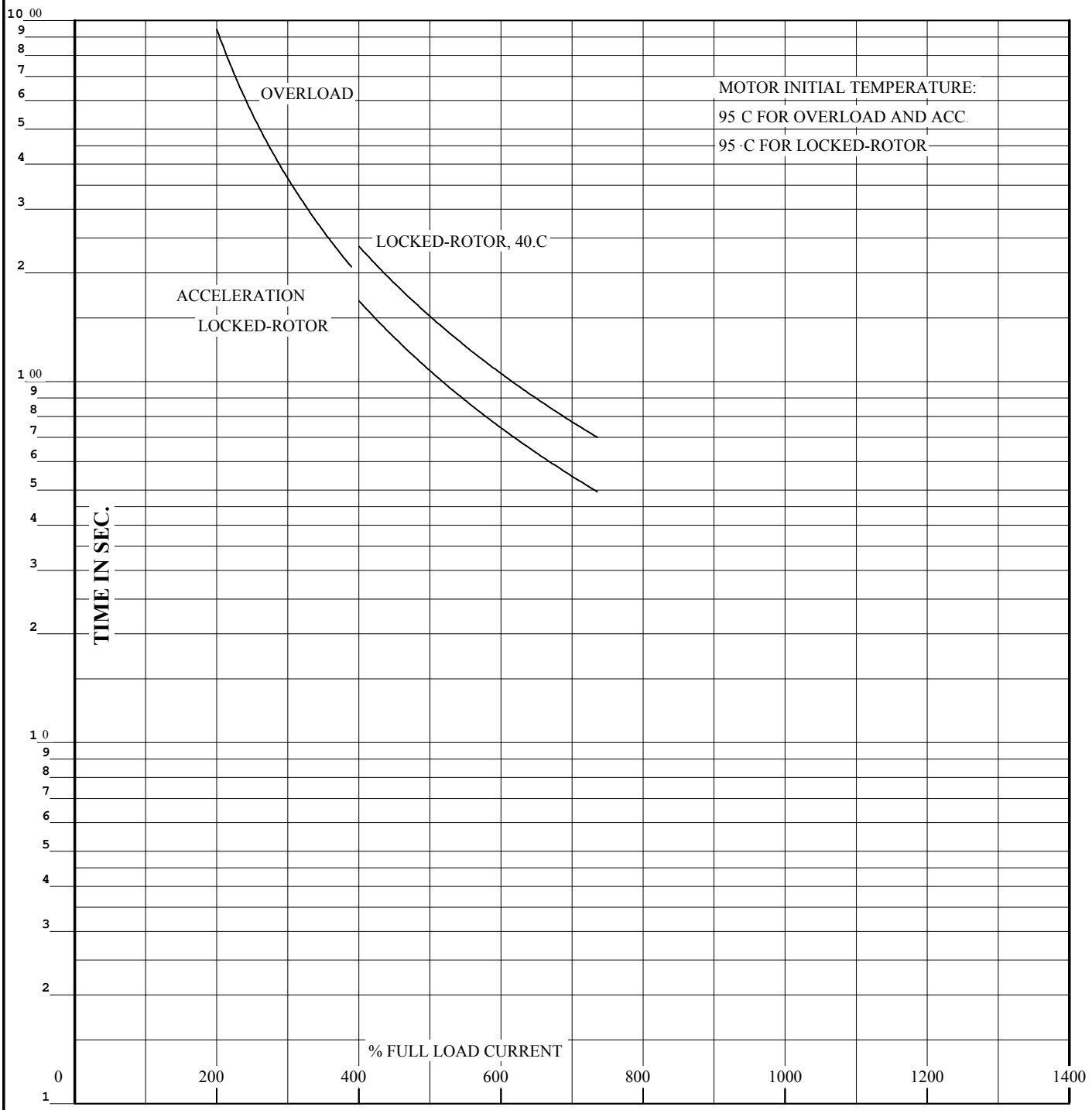
Nameplate

NP2496L
MOBIL POLYREX EM

000613006PC			
CLASS I GROUP	C D X	**NO.**	
CLASS II GROUP	F G X		
OPERATING TEMP CODE	T4		

NP2293L									
CAT.NO.		**SPEC NO.**	A44-7166-1180					**FRAME**	447T
HP	150//125	**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	1785//1485	**HZ**	60//50	**AMB**	40	**SF**	1.00		
VOLTS	460//380	**DUTY**	CONT			**INSUL.CLASS**	F		
AMPS	164//166			**ENCL**	TEFC	**CODE**	G		
DRIVE END BEARING	90BC03J30X			**NEMA-NOM-EFFICIENCY**	95.8				
OPP D.E. BEARING	90BC03J30X								
SER.NO.									
								MOTOR WEIGHT	

REL. S.O.	RPM 1785	S.F. 1.00	ROTOR 418143047ME
FRAME 447T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 164	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE XPFC	STATOR RES.@ 25 °C.0232
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 433786	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.8 PCT.

AMPERES SHOWN FOR 460 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	E.J.CHRISTIAN
CK. BY	T.G.KELATI
APP. BY	T.G.KELATI
DATE	07/07/16

A-C MOTOR PERFORMANCE CURVES

A44WG1180-R003

ISSUE DATE 07/07/16

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447T	150	P	3/60	1785	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
164	CONT	40/F	1.00	B	G	XPFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
433786	418143047ME	---	---	.0232

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	36.5	1800	6.64	0
1/4	37.5	53.4	1796	70.7	93.0
2/4	75.0	85.7	1793	85.8	95.5
3/4	112	123	1789	88.8	96.0
4/4	150	164	1785	89.1	96.0
5/4	187	206	1781	89.1	95.6

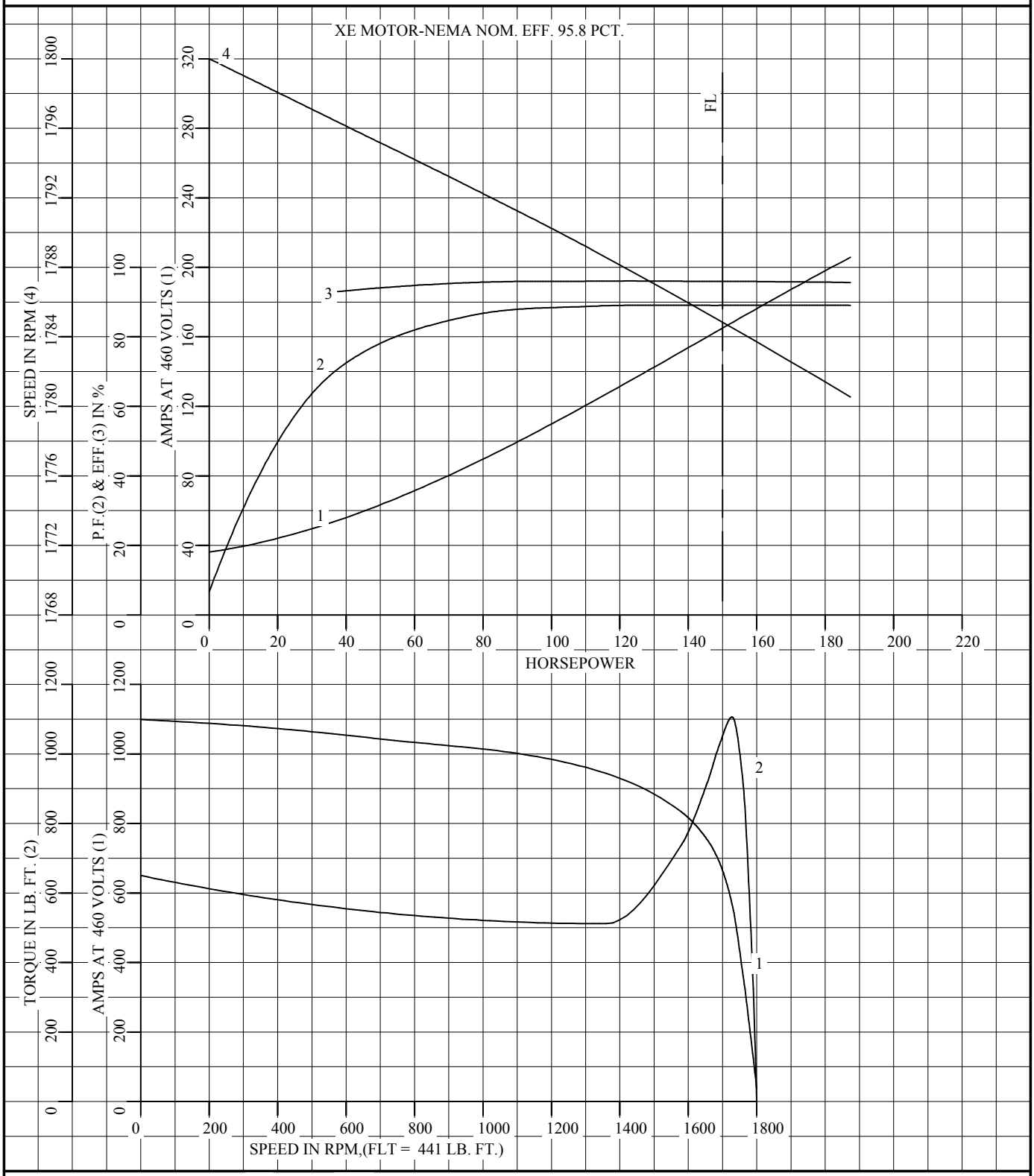
SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	147	650	1099
PULL UP	1360	116	512	944
BREAKDOWN	1728	251	1106	566
FULL LOAD	1785	100	441	164

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

REMARKS: TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 95.8 PCT.

REL S.O.	RPM 1785	S.F. 1.00	ROTOR 418143047ME
FRAME 447T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 164	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE XPFC	STATOR RES.@ 25 °C .0232
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 433786	OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 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	E.J.CHRISTIAN
CK. BY	T.G.KELATI
APP. BY	T.G.KELATI
DATE	07/07/16

A-C MOTOR PERFORMANCE CURVES

A44WG1180-R003

ISSUE DATE 07/07/16

617426-173

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

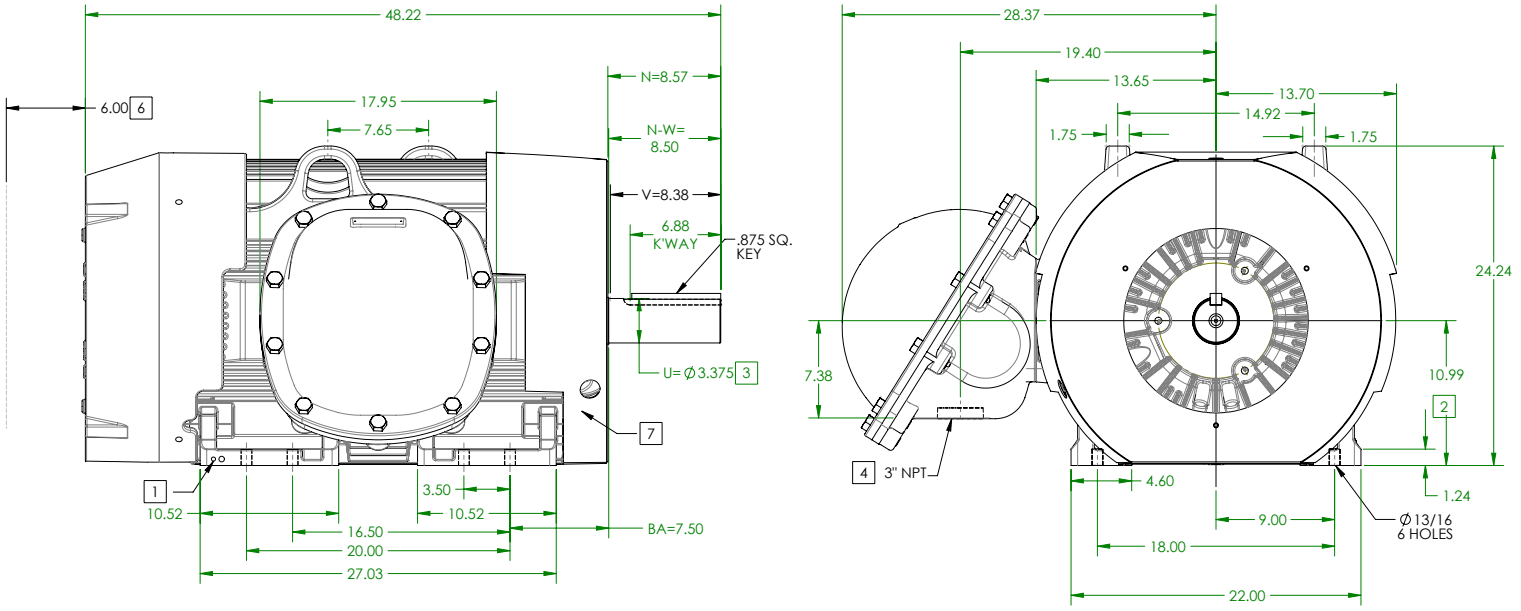
ENCLOSURE: UL LISTED MOTOR

FRAME G447T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES G445T 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.
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): 2610

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 ISSUE			
REV: -	VERSION: 00	REVISED: 07:56:17 05/12/2016	TDR: 000000979822
MODEL NO. 617426-173			REF:
BY: RAGGDM	Material:		C

BALDOR

G447T/445T XP – FOOTED – CL 1 GR C & D

617426-173

617426-173

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

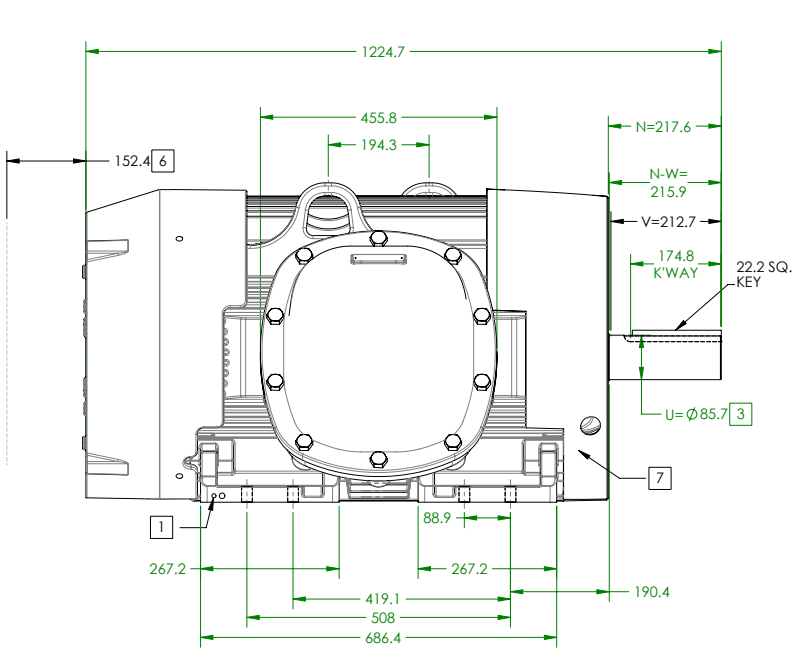
ENCLOSURE: UL LISTED MOTOR

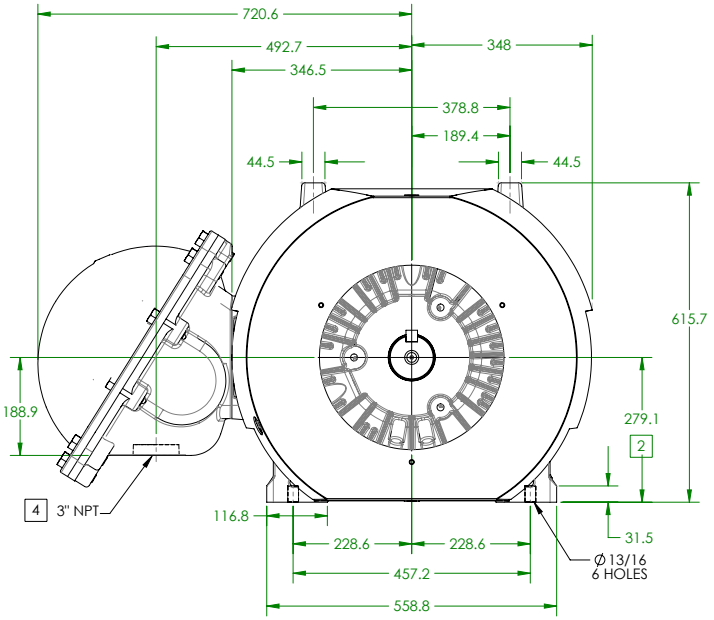
FRAME G447T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES G445T FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
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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 .08 MM T.I.R. TO 127 MM DIA.

5 WEIGHT (KGS): 1185

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

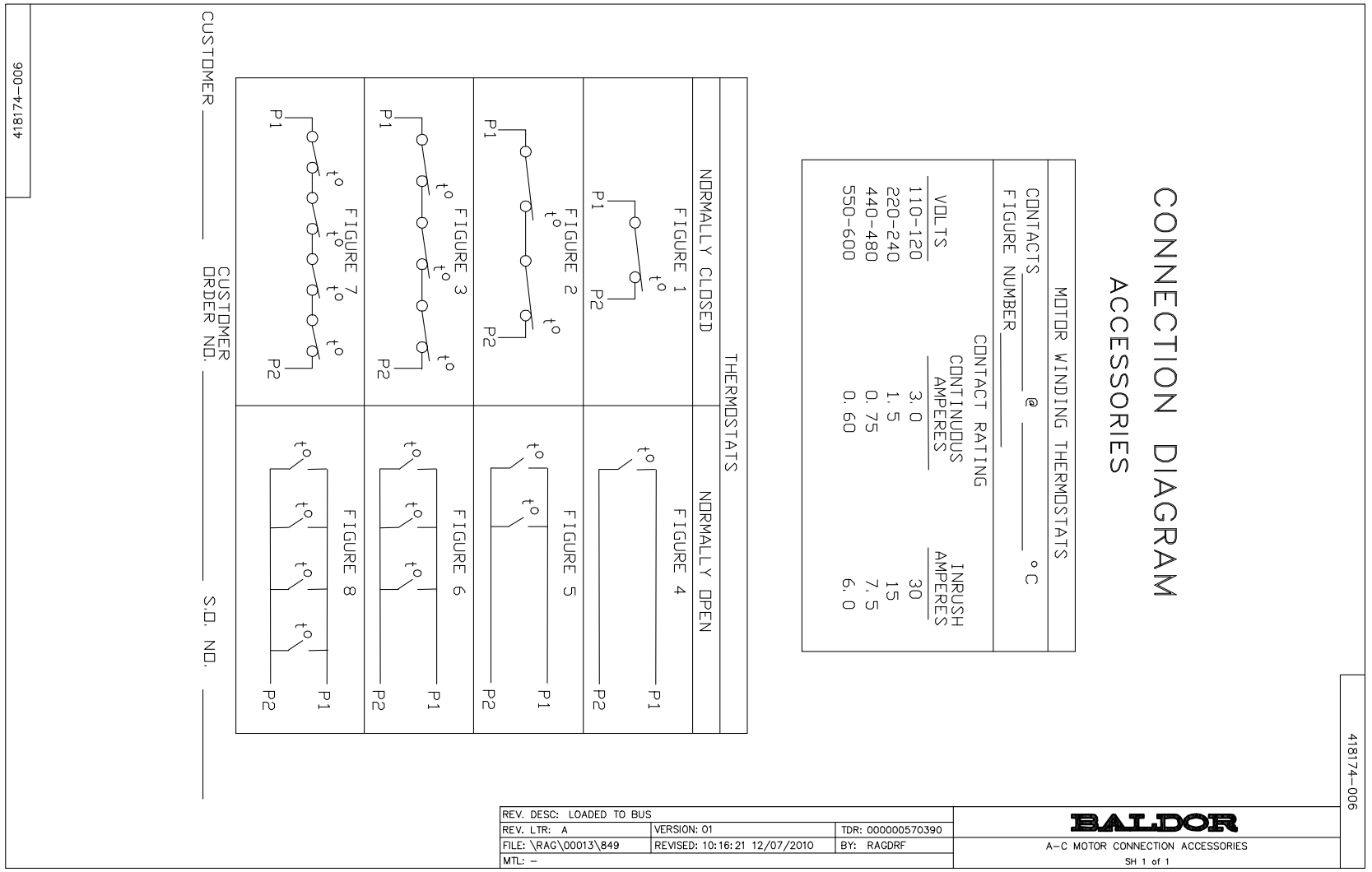
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REV. DESC: NEW ISSUE			
REV: -	VERSION: 00	REVISED: 07:56:17 05/12/2016	TDR: 000000979822
MODEL NO. 617426-173			REF:
BY: RAGGDM	Material:	C	BALDOR

G447T/445T XP – FOOTED – CL 1 GR C & D

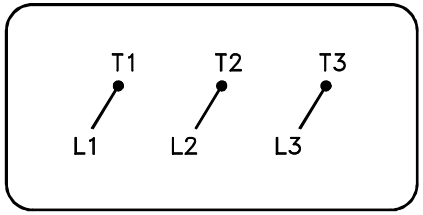
617426-173

617426-173


CONNECTION DIAGRAM
ACCESSORIES
418174-006
MOTOR WINDING THERMOSTATS
CONTACTS _____ @ _____ °C
FIGURE NUMBER _____
CONTACT RATING
VOLTS
CONTINUOUS AMPERES
INRUSH AMPERES
110-120 3.0 30
220-240 1.5 15
440-480 0.75 7.5
550-600 0.60 6.0
THERMOSTATS
NORMALLY CLOSED
NORMALLY OPEN
FIGURE 1
FIGURE 2
FIGURE 3
FIGURE 4
FIGURE 5
FIGURE 6
FIGURE 7
FIGURE 8
P1
P2
CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____
418174-006
REV. DESC: LOADED TO BUS
REV. LTR: A
VERSION: 01
TDR: 000000570390
FILE: \RAG\00013\849
REVISED: 10:16:21 12/07/2010
BY: RAGDRF
MTL: -
BALDOR
A-C MOTOR CONNECTION ACCESSORIES
SH 1 of 1

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
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1