ABB BALDOR RELIANCE

Customer information packet

DRX441544T

150HP, 1785RPM, 3PH, 60HZ, 445T, TEFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	TEFC
Frame	445T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UL
	CSA
	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	10-60
Current @ Voltage	169.000 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	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	169.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	F

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3335
Layout	617426-001
Eff. date	05-06-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	03-11-2019

Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.97 IN
Power Factor	86
Product Family	General Industrial
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	No Slinger
Speed	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	X X X		
OPERATING TEMP CODE	T3C		

NP3140L											
SPEC NO.	A44-9223-3335		**CAT.NO.**	DRX441544T					**FRAME**	445T	
HP	150	**VOLTS**	460		**PHASE**	3	**DESIGN**	B	**TYPE**	P	
RPM	1785	**AMPS**	169		**HZ**	60	**AMB**	40	**SF**	1.00	
DRIVE END BEARING	90BC03J30X		**DUTY**	CONT			**INSUL.CLASS**	F			
OPP D.E. BEARING	90BC03J30X		**ENCL**	TEFC	**CODE**	F					
SF	1.15	**WK2**	51.1	**MAG CUR**	48.9		**RPM MAX**	3600			
CT HZ	10-60	**VT HZ**	0-60	**CHP HZ**	60-90		**NEMA-NOM-EFF**	95.8			
	SUIT FOR 55C AMB AT 1.00 SF					IP55					
SER.NO.				**MOTOR WEIGHT**							

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	150	P	3/60	1785	460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
169	CONT	40/F	1.15	B	F	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
498808	418143053AE	---	---	.0298

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	48.9	1800	4.26	0
1/4	37.6	69.1	1796	54.3	93.6
2/4	75.0	97.1	1792	75.6	95.7
3/4	112	131	1788	83.4	96.0
4/4	150	169	1784	86.5	95.8
5/4	188	210	1779	87.6	95.3

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	130	572	1041
PULL UP	270	116	511	1020
BREAKDOWN	1729	280	1237	579
FULL LOAD	1784	100	442	169

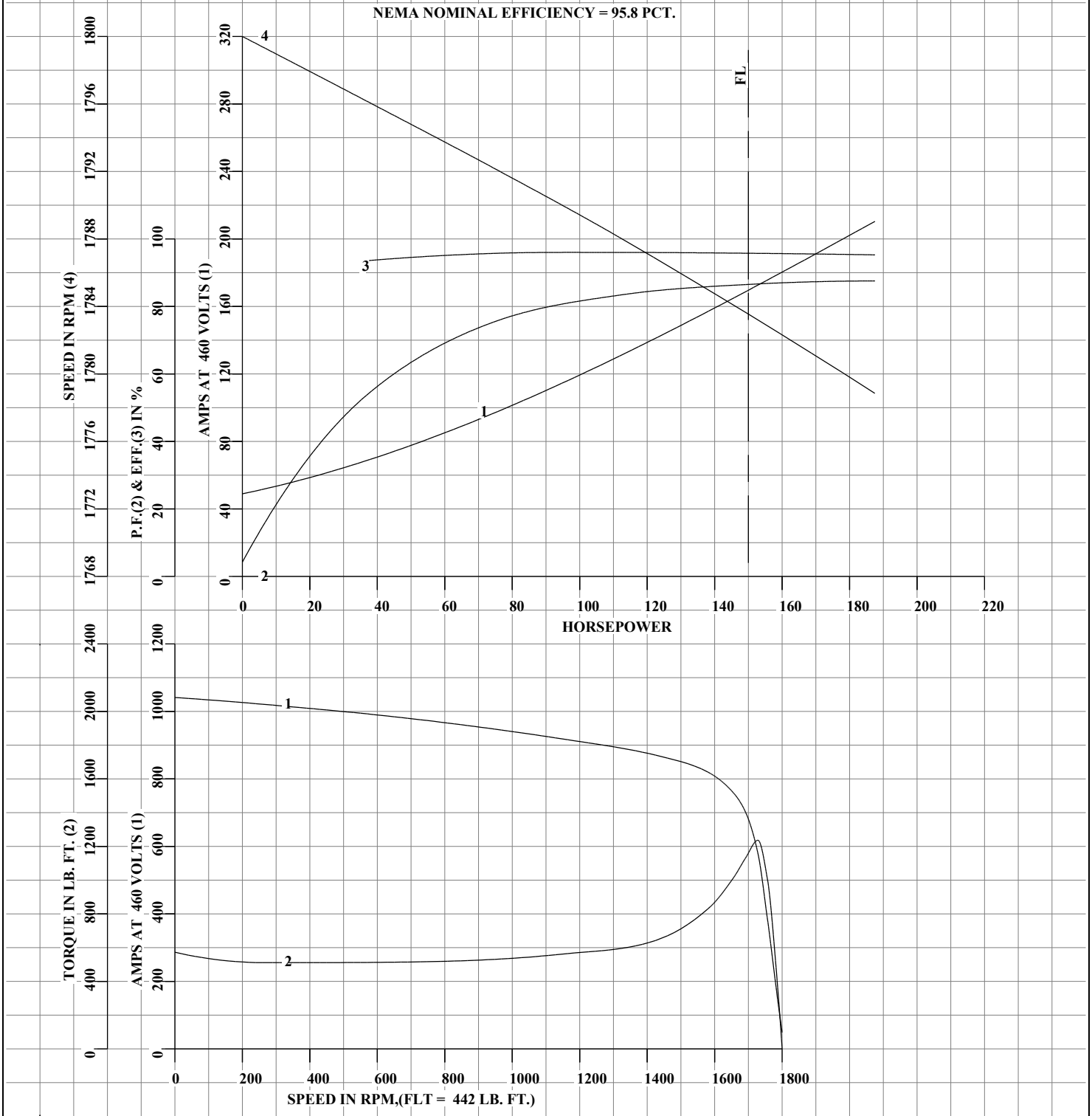
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

TYPICAL DATA
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

ABB	DRAWN BY: C.B.ATANGANE CHECKED BY: C.E.JAMISON APPROVED BY: C.E.JAMISON DATE: 10/16/23	AC MOTOR PERFORMANCE DATA	A44WG3335-R001 DATE ISSUED 02/03/25

FRAME 445T	RPM 1785	S.F. 1.15	ROTOR 418143053AE
HP 150	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 169	CODE LETTER F	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0298
	AMB °C / INSUL 40/F	E/S 498808	OHMS (BETWEEN LINES)

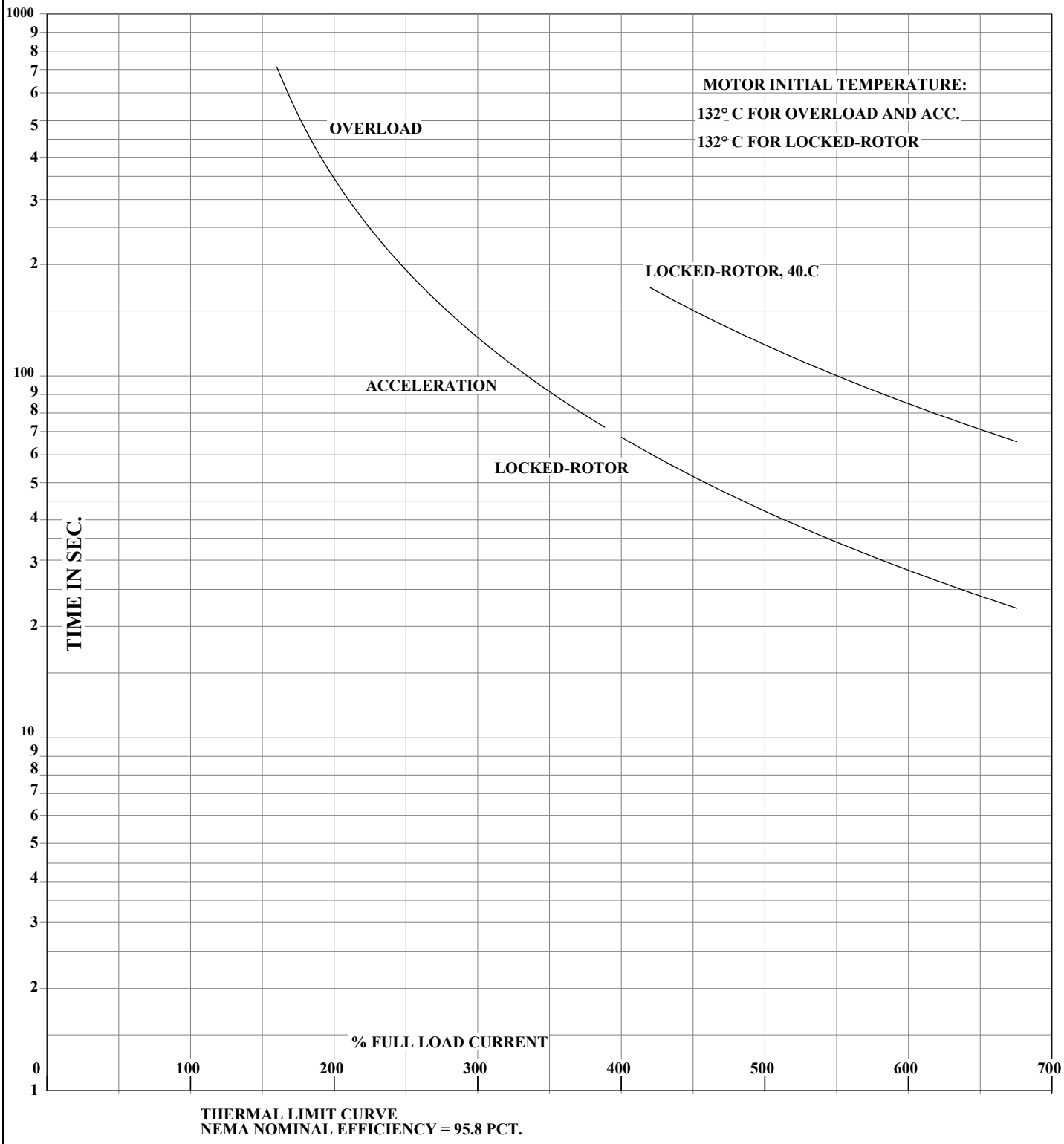
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PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0298
	AMB °C / INSUL 40/F	E/S 498808	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

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DUTY MASTER ALTERNATING CURRENT MOTORS

617426-001

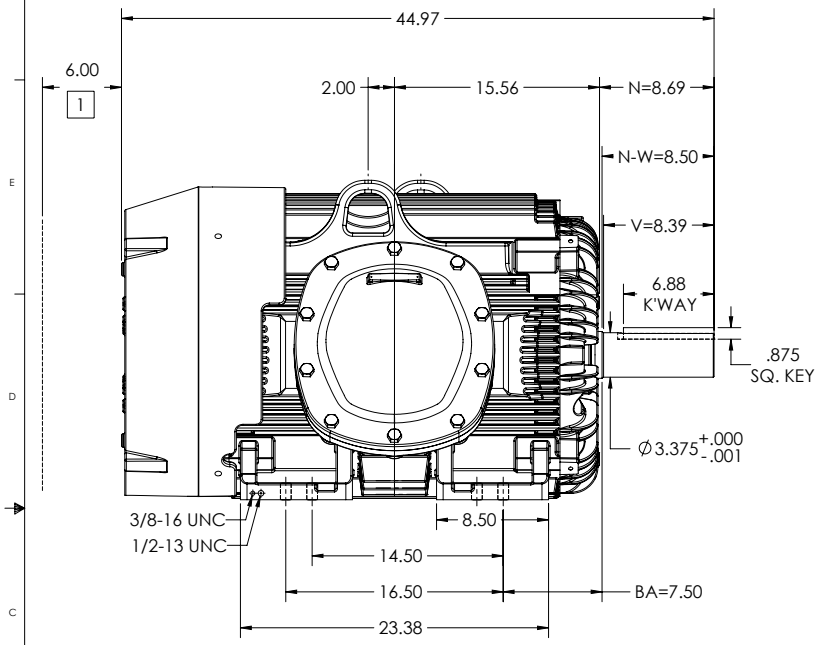
SQUIRREL-CAGE INDUCTION

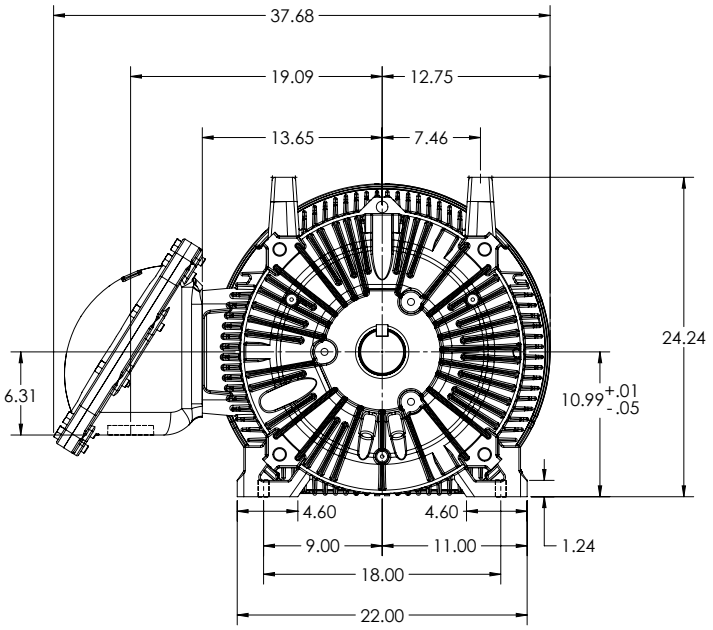
ENCLOSURE: UL LISTED MOTOR

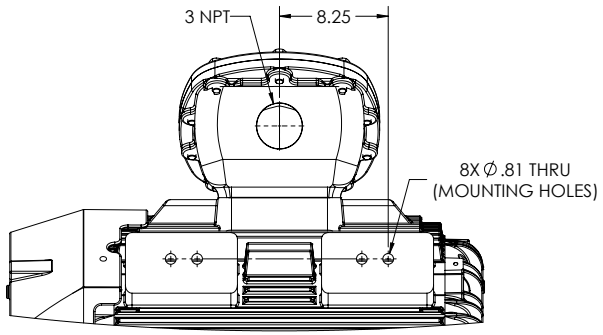
MOUNTING: FOOT, F-1

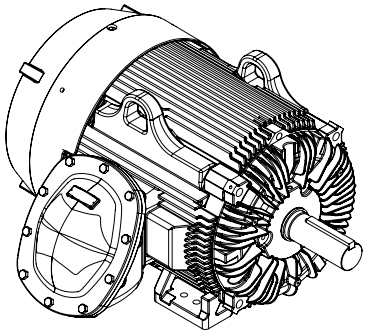
G445T/G444T FRAME MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS.
WEIGHT (LBS): 2150, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

SHEET NUMBER 1 OF 2

617426-001

REV. DESC: UPDATE DS QUALITY			
REV: D	VERSION: 04	REVISED: 10:29:12 07/14/2017	TDR: 000001034367
MODEL NO. 617426-001			REF:
BY: USJEDIL	Material:		C

BALDOR

G445T/444T FCXP F1 FOOT/CAST IRON CONDUIT BOX/DIV.1

617426-001

DUTY MASTER ALTERNATING CURRENT MOTORS

617426-001

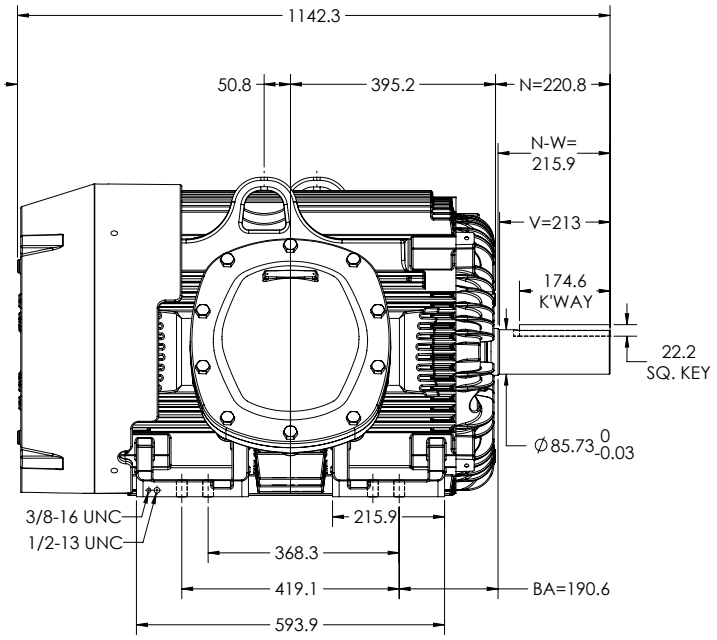
SQUIRREL-CAGE INDUCTION

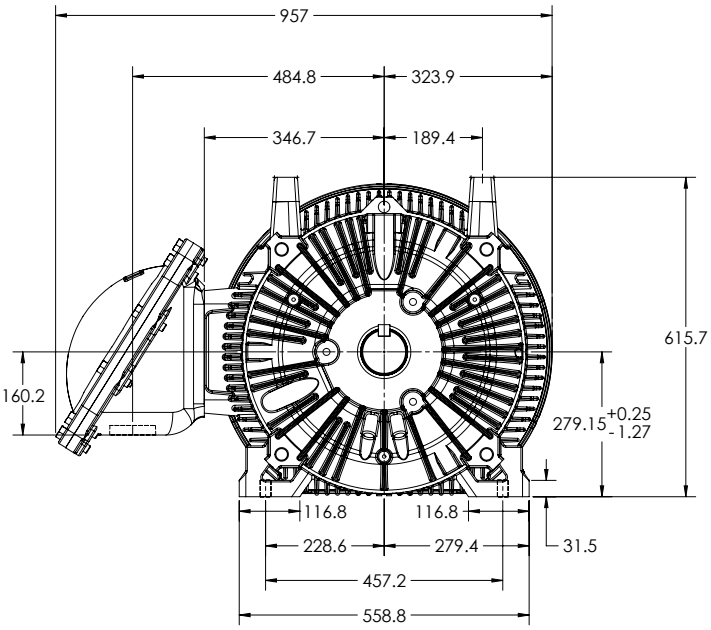
ENCLOSURE: UL LISTED MOTOR

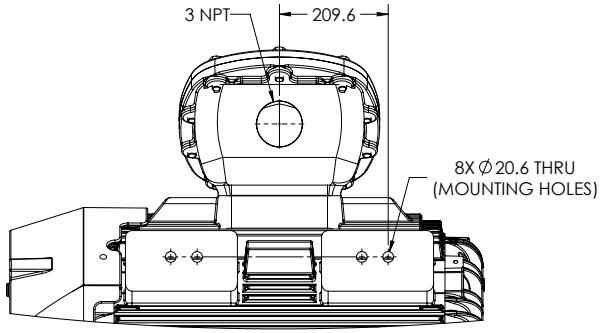
MOUNTING: FOOT, F-1

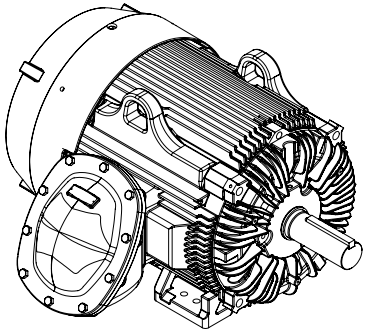
G445T/G444T FRAME MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KGS): 975, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

SHEET NUMBER 2 OF 2

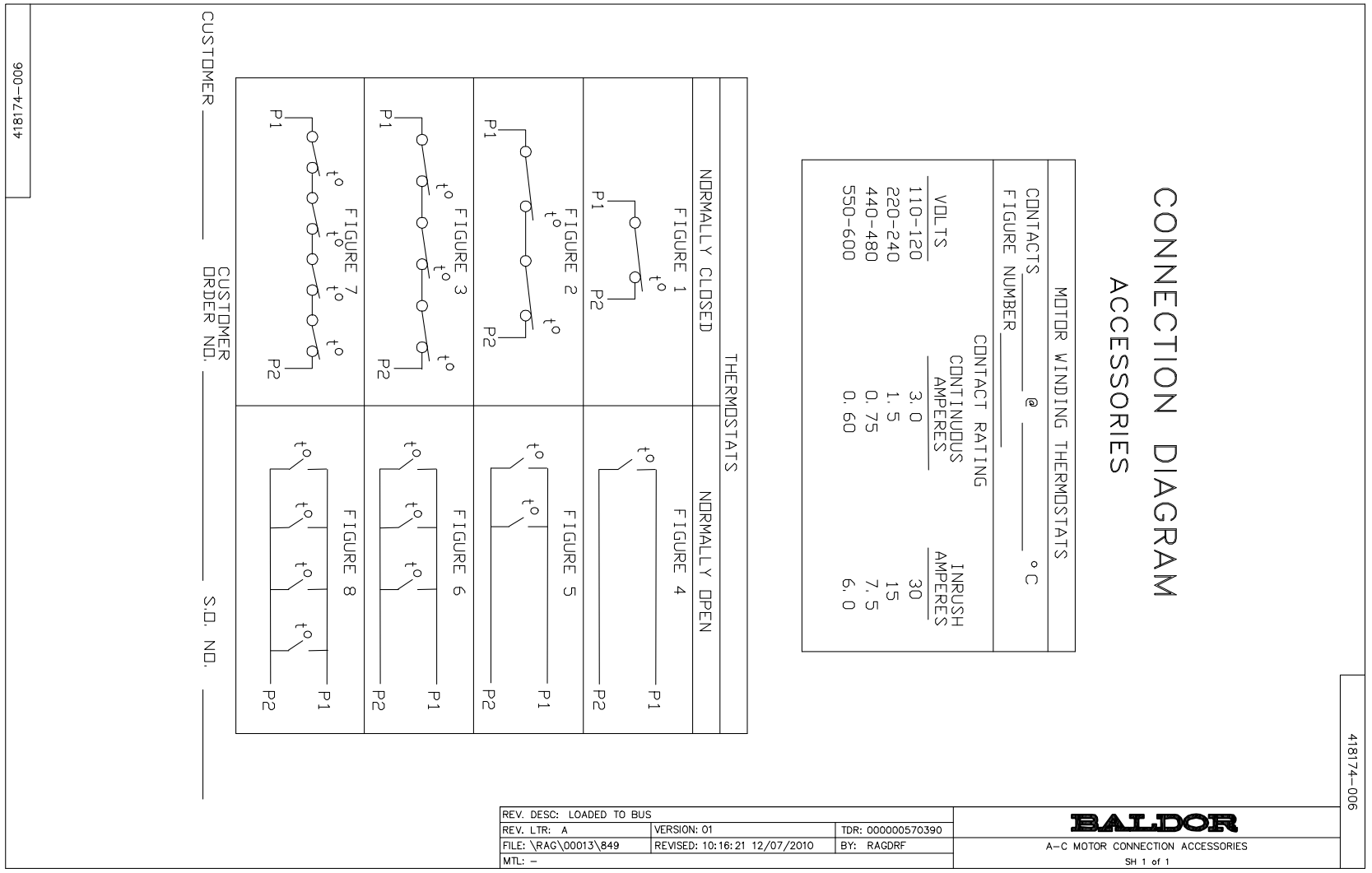
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REV. DESC: UPDATE DS QUALITY			
REV: D	VERSION: 04	REVISED: 10:29:12 07/14/2017	TDR: 000001034367
MODEL NO. 617426-001			REF:
BY: USJEDIL	Material:		C

BALDOR

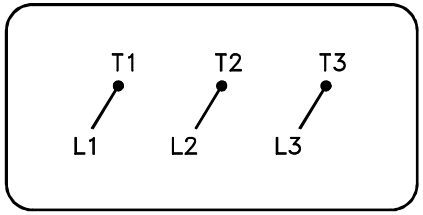
G445T/444T FCXP F1 FOOT/CAST IRON CONDUIT BOX/DIV.1

617426-001


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
t°
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