ABB BALDOR RELIANCE

Customer information packet

CEM7068T-I

75//60HP, 1780//1480RPM, 3PH, 60//50HZ, 365T
Class - CLI GP C,D
Division - Division I

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11/12/2026 8:05:25 AM

Specifications

Enclosure	TEFC
Frame	365TC
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
	60.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	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	84.100 A @ 460.0 V
	82.000 A @ 380.0 V
	168.000 A @ 230.0 V
	164.000 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0798
Layout	616512-502
Eff. date	04-13-2017
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	09-27-2014

Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	82.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.44 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1480 rpm
	1780 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		

NP2293L									
CAT.NO.	CEM7068T-I			**SPEC NO.**	A36-5813-0798			**FRAME**	365TC
HP	75//60	**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	1780//1480	**HZ**	60//50	**AMB**	40	**SF**	1.15		
VOLTS	230/460//190/380			**DUTY**	CONT	**INSUL.CLASS**	F		
AMPS	168/84.1//164/82			**ENCL**	TEFC	**CODE**	F		
DRIVE END BEARING	65BC03J30X			**NEMA-NOM-EFFICIENCY**	95.4				
OPP D.E. BEARING	65BC03J30X								
SER.NO.		NEMA MG-1 PT 5, IP55							
	SUIT FOR 55C @ 1.00SF, SUITABL			E FOR 208V				**MOTOR WEIGHT**	

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365T	75	P	3/60	1780	230/460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
168/84.1	CONT	40/F	1.15	B	F	XPFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
892275	708559030EE	---	---	.0216/.0867

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	25.3	1800	3.18	0
1/4	18.8	32.1	1795	57.8	94.8
2/4	37.5	46.7	1790	78.2	96.1
3/4	56.2	64.5	1785	85.1	95.9
4/4	74.9	84.1	1780	87.5	95.4
5/4	93.8	106	1773	87.9	94.6

SPEED TORQUE

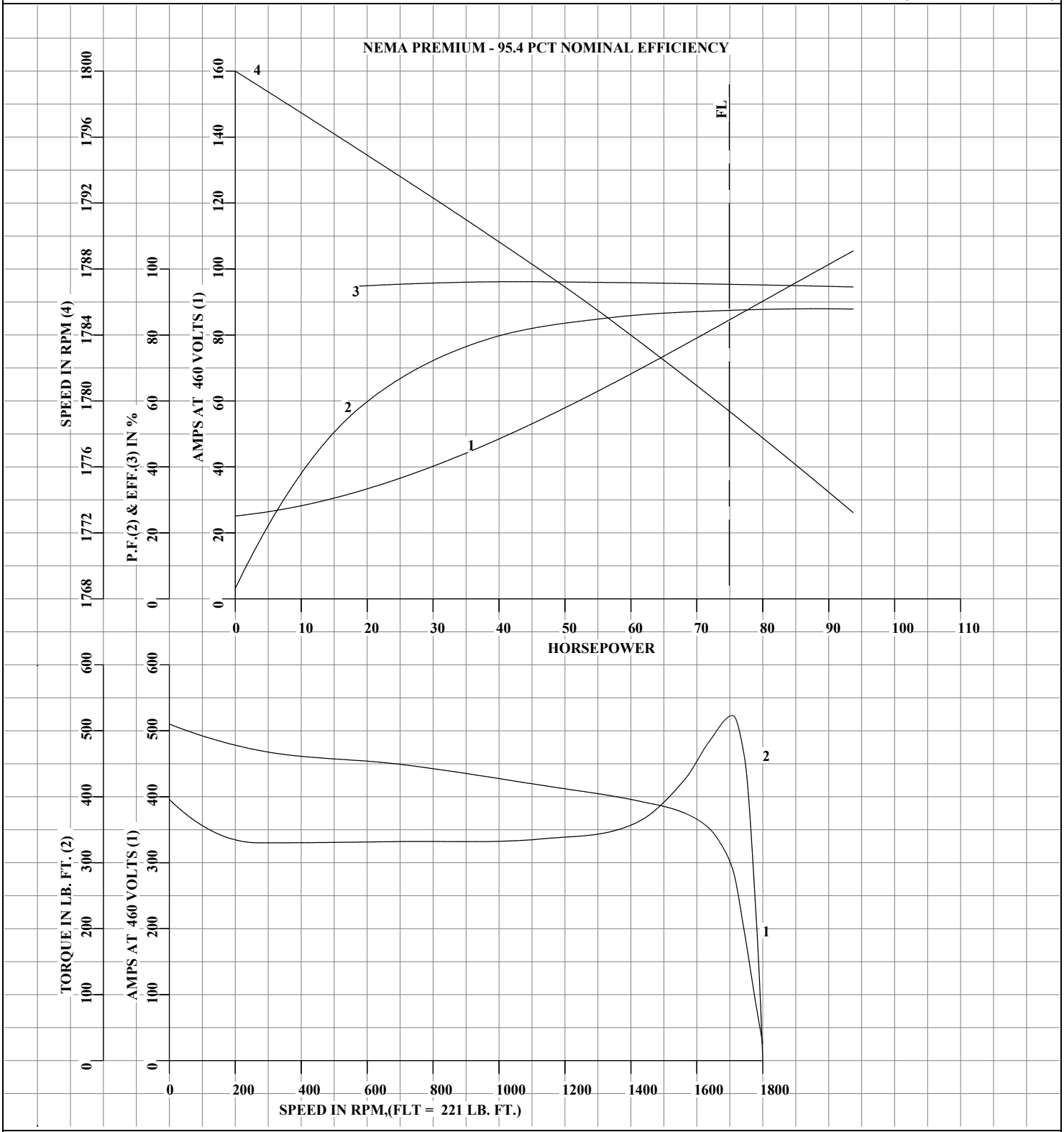
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	179	396	510
PULL UP	270	149	330	470
BREAKDOWN	1709	237	523	289
FULL LOAD	1780	100	221	84.1

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

TYPICAL DATA
NEMA PREMIUM - 95.4 PCT NOMINAL EFFICIENCY

ABB	DRAWN BY: W. L. SMITH CHECKED BY: J.J.HARRISON APPROVED BY: W. L. SMITH DATE: 08/24/10	AC MOTOR PERFORMANCE DATA	A36WG0798-R002 DATE ISSUED 01/07/11

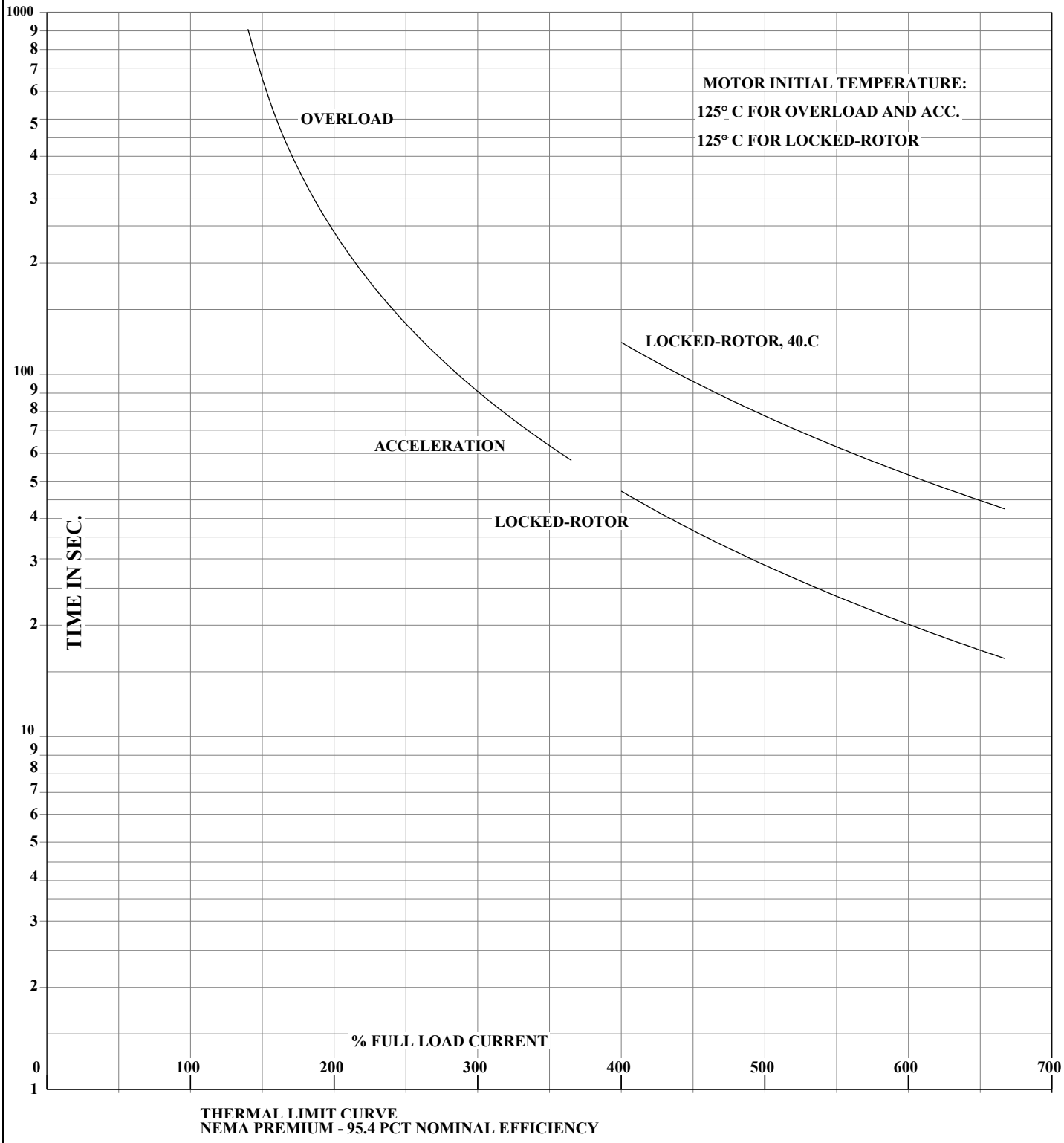
FRAME 365T	RPM 1780	S.F. 1.15	ROTOR 70855903EE
HP 75	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 168/84.1	CODE LETTER F	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE XPFC	STATOR RES. @ 25°C .0216/.0867
	AMB °C / INSUL 40/F	E/S 892275	OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

ABB	DRAWN BY: W. L. SMITH CHECKED BY: J.J.HARRISON APPROVED BY: W. L. SMITH DATE: 08/24/10	AC MOTOR PERFORMANCE DATA	A36WG0798-R002 ISSUE DATE 01/07/11

FRAME 365T	RPM 1780	S.F. 1.15	ROTOR 708559030EE
HP 75	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 168/84.1	CODE LETTER F	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE XPFC	STATOR RES. @ 25°C .0216/.0867
	AMB °C / INSUL 40/F	E/S 892275	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA PREMIUM - 95.4 PCT NOMINAL EFFICIENCY

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

ABB	DRAWN BY: W. L. SMITH CHECKED BY: J.J.HARRISON APPROVED BY: W. L. SMITH DATE: 08/24/10	AC MOTOR PERFORMANCE DATA	A36WG0798-R002 ISSUE DATE 01/07/11

DUTY MASTER ALTERNATING CURRENT MOTORS

616512-502

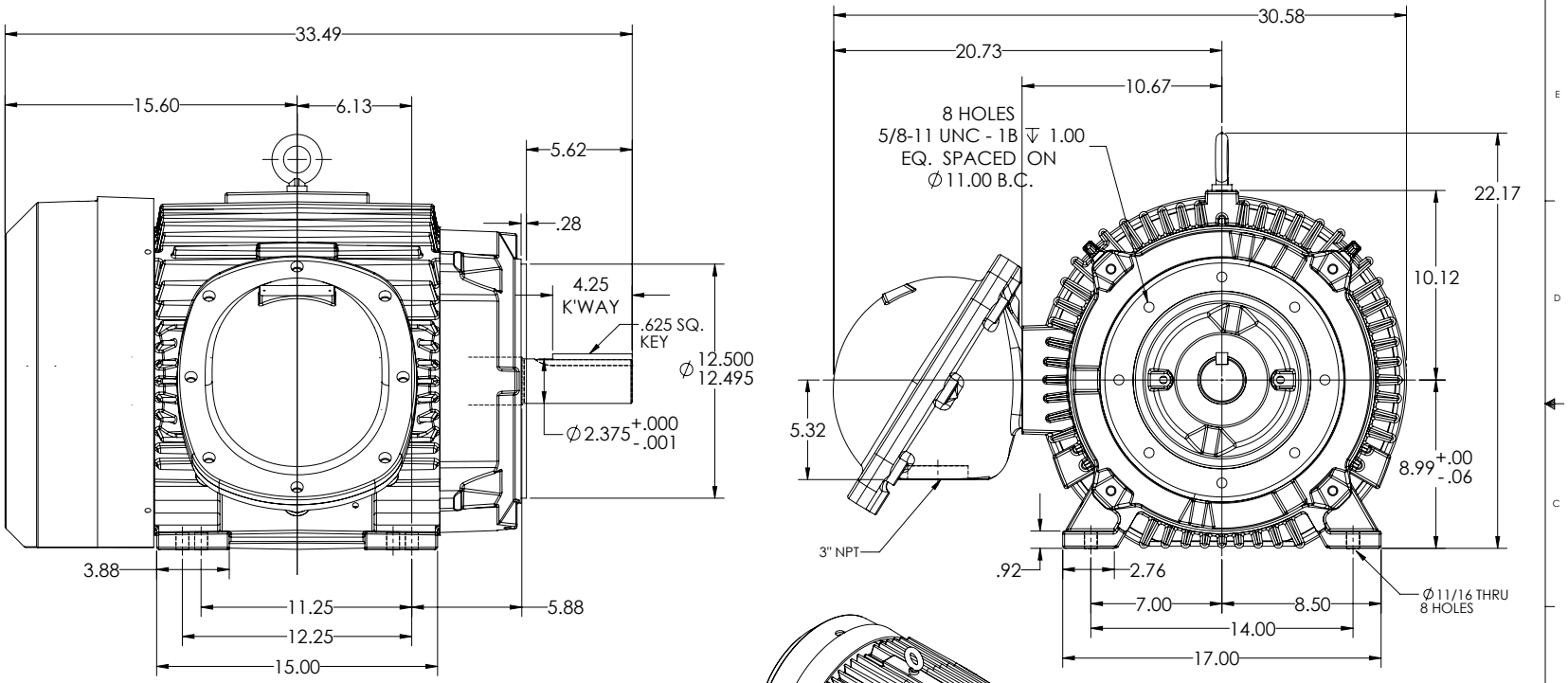
SQUIRREL-CAGE INDUCTION

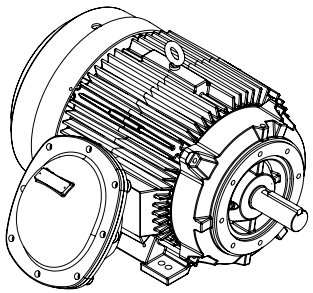
ENCLOSURE: TOTALLY ENCLOSED

FRAME 365TC
INCLUDES 364TC FRAME MOUNTING HOLES

COOLING: FAN-COOLED

MOUNTING: FOOT





DIMENSIONS ARE IN INCHES

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

SHEET NUMBER 1 OF 1

616512-502

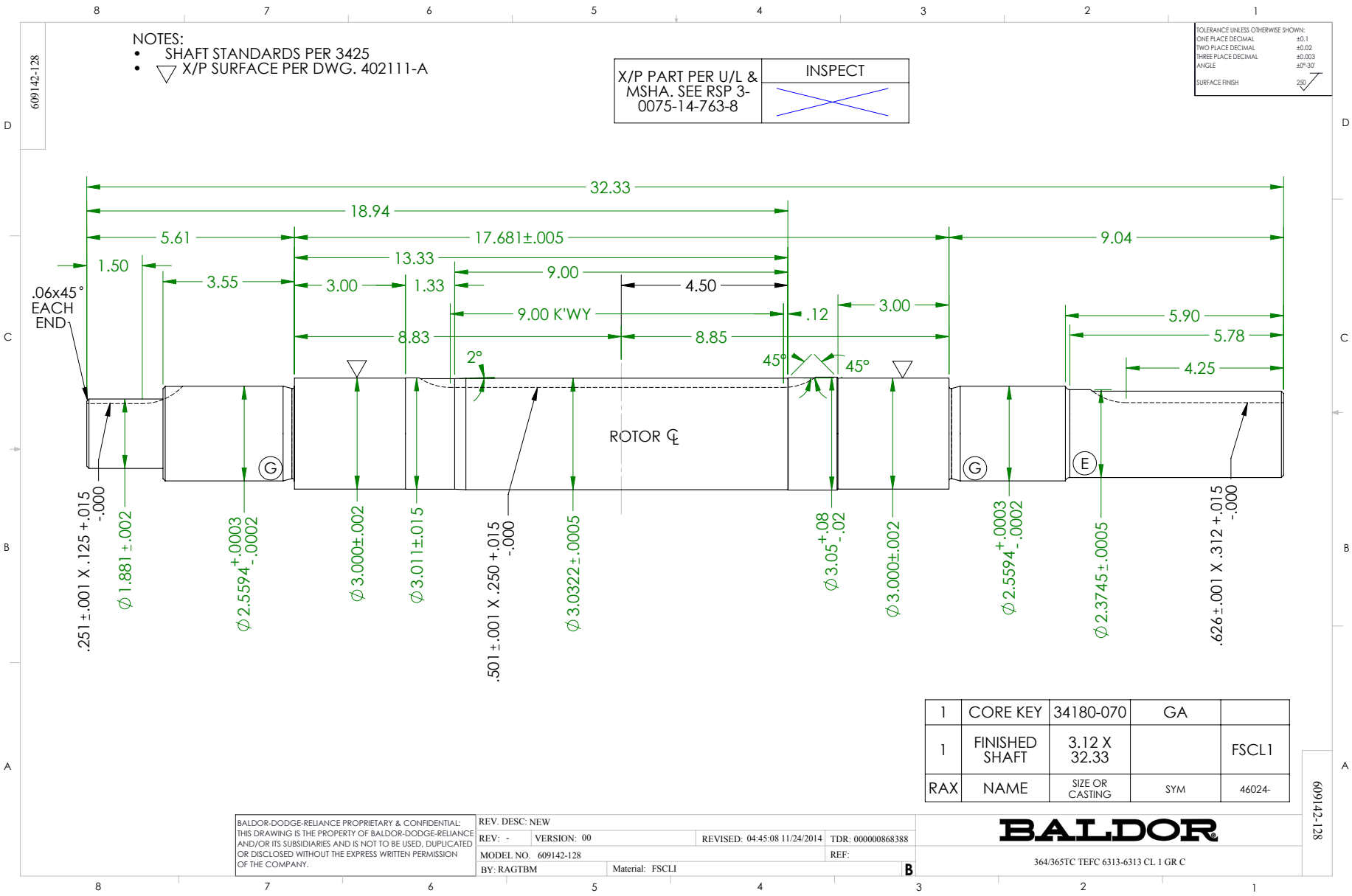
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

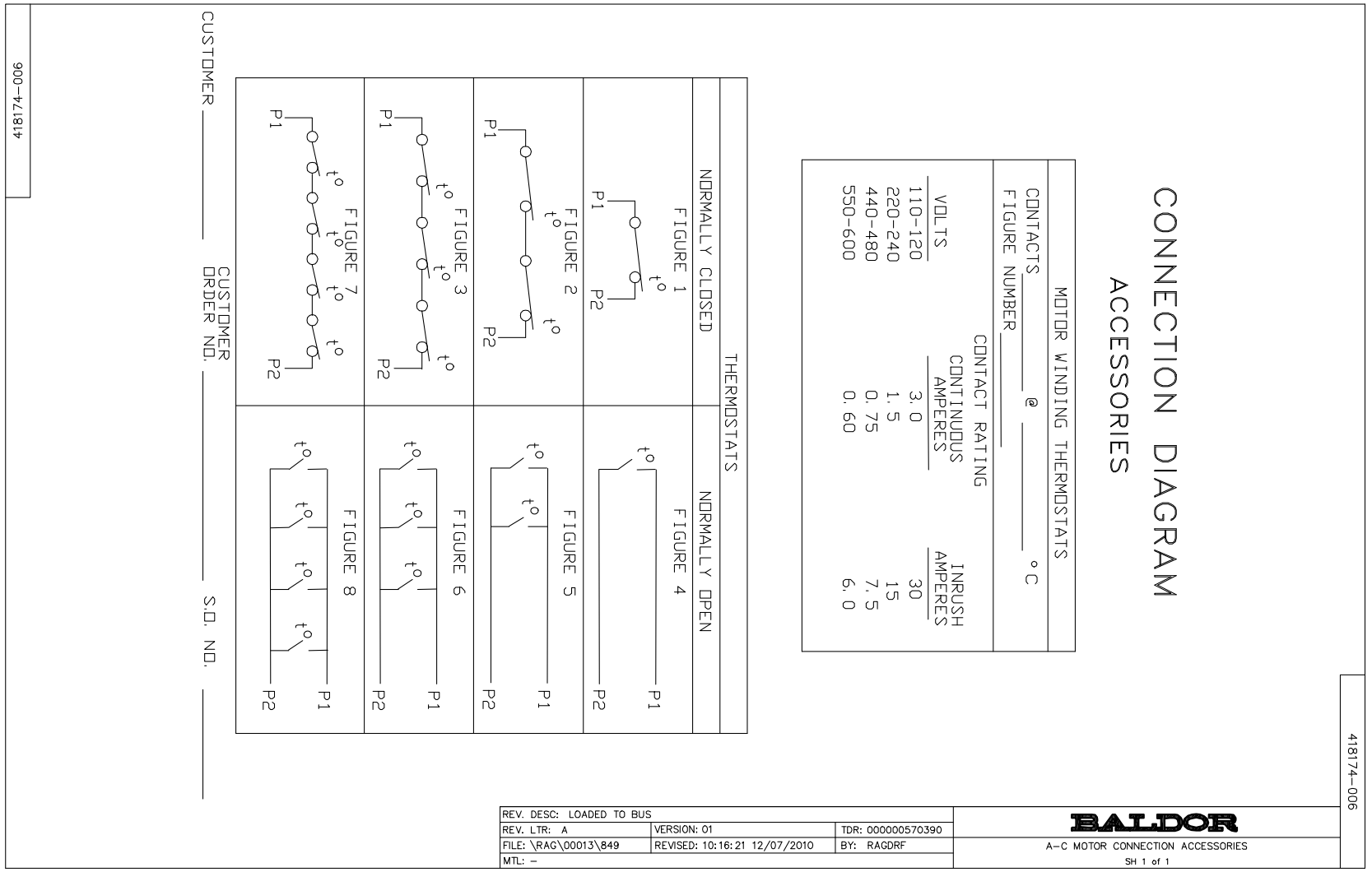
REV. DESC: CHANGE SHAFT TIR FROM .001 TO .003 SEE TDR			
REV: B	VERSION: 02	REVISED: 11:50:49 12/27/2017	TDR: 000001055491
MODEL NO. 616512-502			
BY: RAGGDM			C

BALDOR

E365TC 6313 FCXP W/BOLT ON CONDUIT BOX – CLASS 1 GR C & D

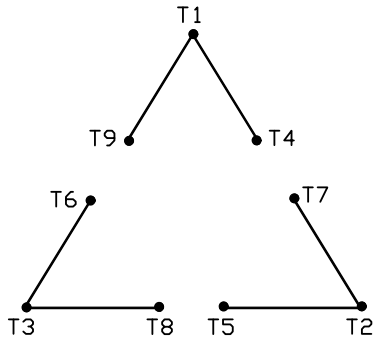
616512-502

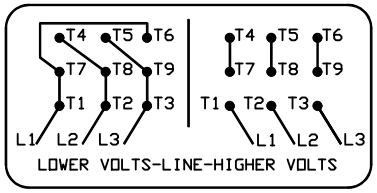

NOTES:
• SHAFT STANDARDS PER 3425
• ▽ X/P SURFACE PER DWG. 402111-A
X/P PART PER U/L & MSHA. SEE RSP 3-0075-14-763-8
INSPECT
609142-128
TOLERANCE UNLESS OTHERWISE SHOWN:
ONE PLACE DECIMAL ±0.1
TWO PLACE DECIMAL ±0.02
THREE PLACE DECIMAL ±0.003
ANGLE ±0°-30'
SURFACE FINISH 250
32.33
18.94
5.61
17.681±.005
9.04
13.33
1.50
3.55
3.00
1.33
9.00
4.50
.06x45° EACH END
9.00 K'WY
.12
3.00
5.90
8.83
8.85
5.78
2°
45°
45°
4.25
ROTOR ℄
G
G
E
.251±.001 X .125 +.015 -.000
Ø1.881±.002
Ø2.5594 +.0003 -.0002
Ø3.000±.002
Ø3.011±.015
.501±.001 X .250 +.015 -.000
Ø3.0322±.0005
Ø3.05 +.08 -.02
Ø3.000±.002
Ø2.5594 +.0003 -.0002
Ø2.3745±.0005
.626±.001 X .312 +.015 -.000
1 CORE KEY 34180-070 GA
1 FINISHED SHAFT 3.12 X 32.33 FSCL1
RAX NAME SIZE OR CASTING SYM 46024-
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REV. DESC: NEW
REV: - VERSION: 00 REVISED: 04:45:08 11/24/2014 TDR: 000000868388
MODEL NO. 609142-128 REF:
BY: RAGTBM Material: FSCLI B
BALDOR
364/365TC TEFC 6313-6313 CL 1 GR C
609142-128


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

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED





(N. P. 1575-B)

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002