ABB BALDOR RELIANCE

Customer information packet

CDRX36744T

75HP, 1785RPM, 3PH, 60HZ, 365TC, A36070M, TEFC
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	TEFC
Frame	365TC
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	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UL
	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	171.000 A @ 230.0 V
	188.000 A @ 208.0 V
	85.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	85.6 a
Insulation Class	F

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4076
Layout	611742-780
Eff. date	07-28-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	07-25-2025

Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36070M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.45 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.00
Shaft Diameter	2.374 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	Normally Closed Thermostat

Nameplate

NP2496L
MOBIL POLYREX EM

000692000FX

000613006PC			
CLASS I GROUP	C D X	**NO.**	
CLASS II GROUP	X X X		
OPERATING TEMP CODE	T3C		

NP3140L											
SPEC NO.	A36-7740-4076			**CAT.NO.**	CDRX36744T				**FRAME**	365TC	
HP	75	**VOLTS**	230/460		**PHASE**	3	**DESIGN**	B	**TYPE**	P	
RPM	1785	**AMPS**	171/85.6		**HZ**	60	**AMB**	40	**SF**	1.00	
DRIVE END BEARING	65BC03J30X			**DUTY**	CONT				**INSUL.CLASS**	F	
OPP D.E. BEARING	65BC03J30X			**ENCL**	TEFC	**CODE**	G				
SF	1.15	**WK2**	16.2	**MAG CUR**	55.2/27.6				**RPM MAX**	2700	
CT HZ	10-60	**VT HZ**	0-60	**CHP HZ**	60-90				**NEMA-NOM-EFF**	95.4	
	SUIT FOR 55C AMB AT 1.00 SF						IP55				
SER.NO.				**MOTOR WEIGHT**	965						

AC induction motor performance data

Record #83267 - Typical performance - not guaranteed values

Winding	A36WG4073
Type	A3670M
Enclosure	TEFC

Nameplate data			
Rated Output			75
Volts			230/460
Full Load Amps			172/86.2
R.P.M.			1780
Hz	60	Phase	3
KVA Code			H
Service Factor (S.F.)			1
NEMA Nom. Eff.	95.4	Power Factor	85
Duty			CONT
S.F. Amps			

460 V, 60 Hz:

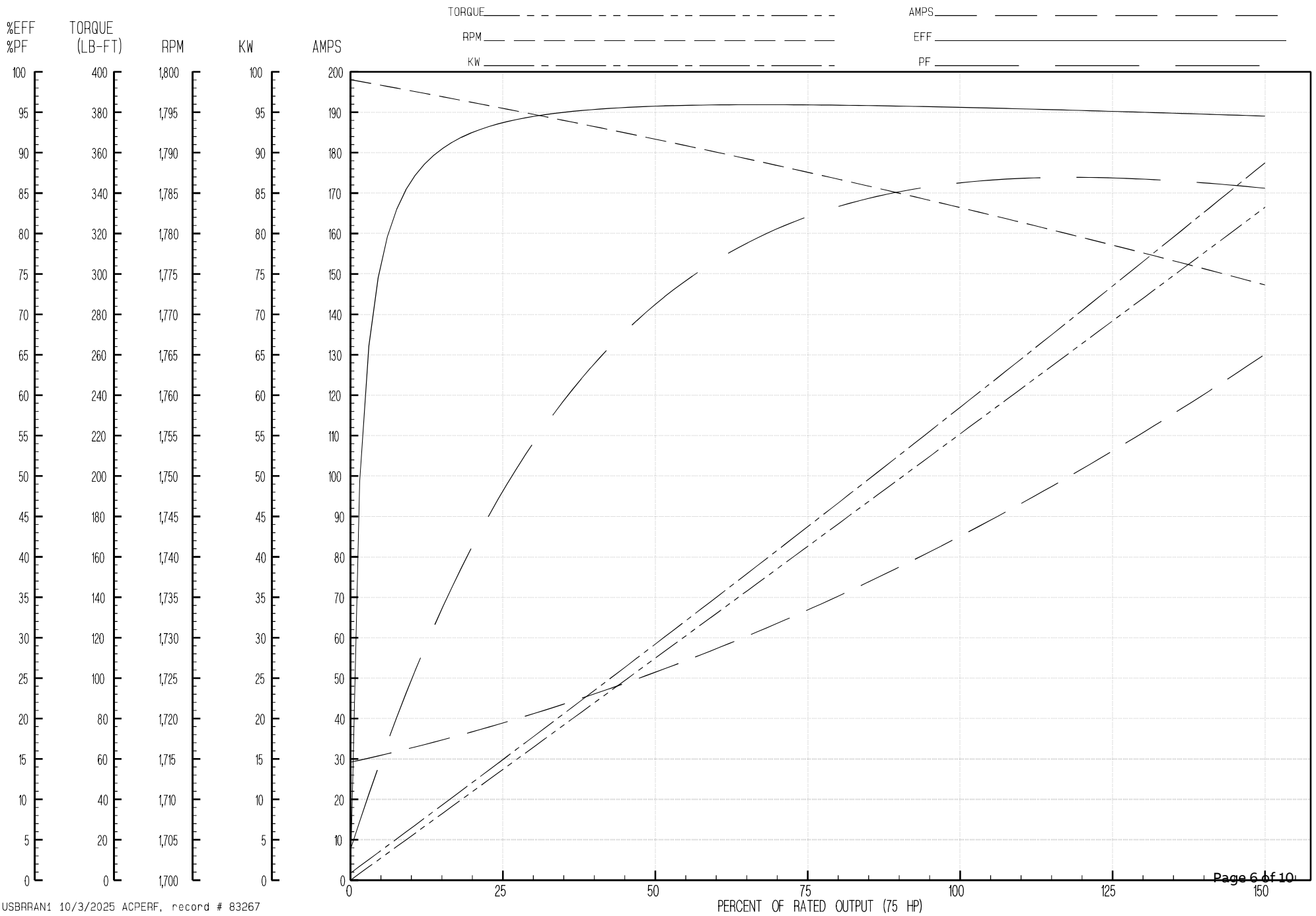
High Voltage Connection	
Full Load Torque	220.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	646 LB-FT
Pull-up Torque	387 LB-FT
Locked-rotor Torque	499 LB-FT
Starting Current	627 A
No-load Current	30.8
Line-line Res. @ 25°C	0.07769 Ω
Temp. Rise @ Rated Load	61°C
Temp. Rise @ S.F. Load	0°C
Locked-rotor Power Factor	32.9
Rotor inertia	16.2 lb-ft²

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	3	51	73	81	85	86	86	0
Efficiency	0	93.5	95.6	95.9	95.6	95.1	94.4	0
Speed	1798.9	1795.7	1791.7	1787.7	1782.8	1778.9	1773.6	0
Line amperes	30.8	36.9	50.3	67.3	86.2	107	129	0

Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 1780 RPM 460 V A3670M
TORQUES(LB-FT): PO=646.00 PU=387.00 LR=499.00 LRA=627.00



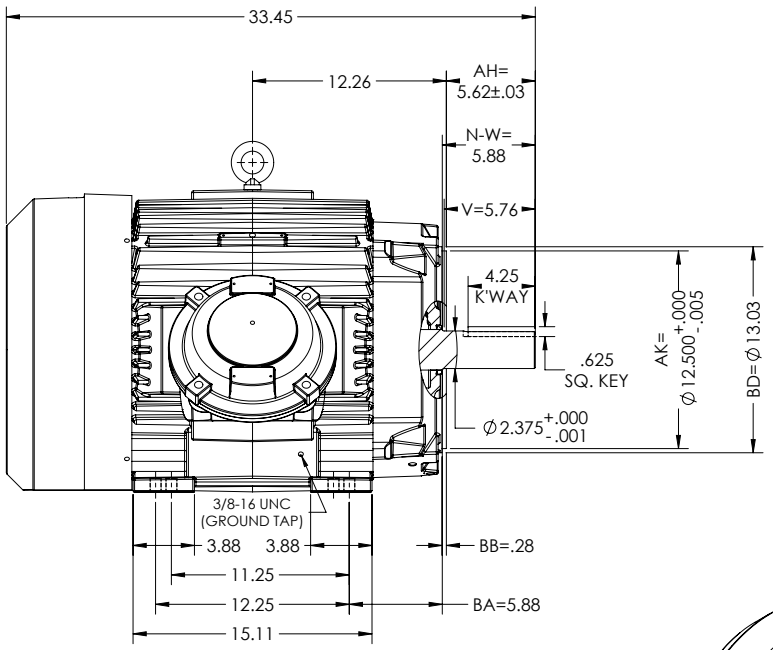
USBRRAN1 10/3/2025 ACPERF, record # 83267

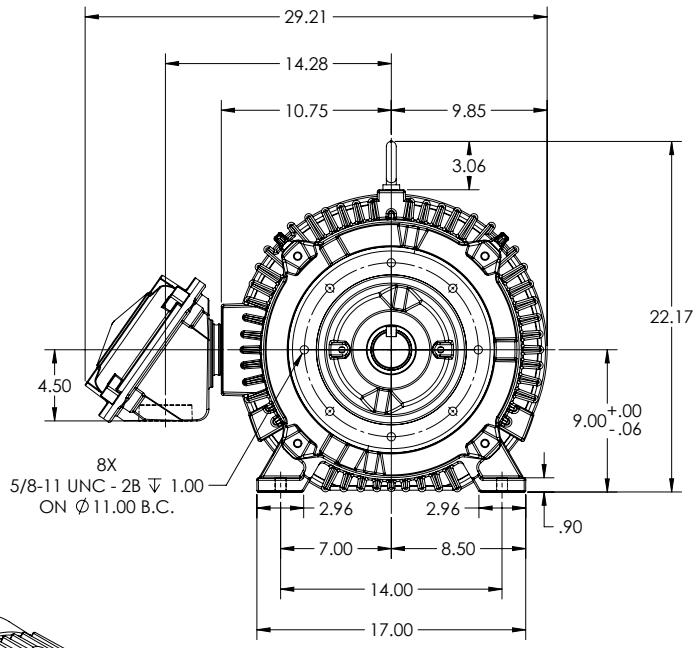
DUTY MASTER ALTERNATING CURRENT MOTORS

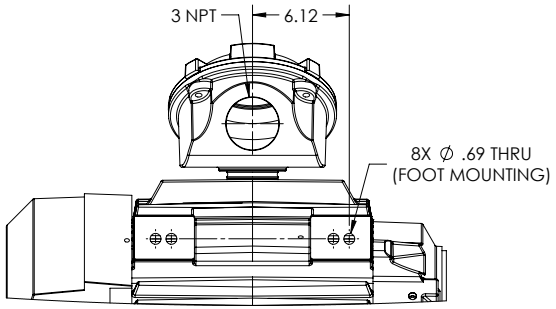
611742-780

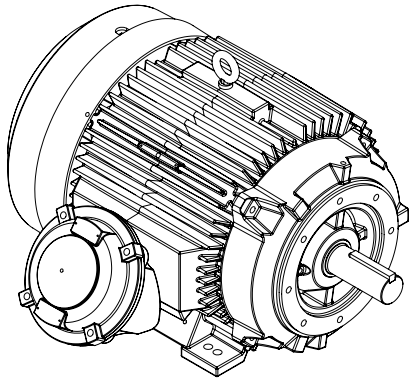
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | UNDERWRITER MOTOR

MOUNTING: FOOT, F-1 | E365TC/E364TC FRAME MOUNTING HOLES | COOLING: FAN COOLED EXPLOSION PROOF









DIMENSIONS ARE IN INCHES.
MOTOR WEIGHT (LBS)= 944±15% DEPENDING RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

FACE RUNOUT & ECCENTRICITY = .007 MAX. T.I.R.
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 1

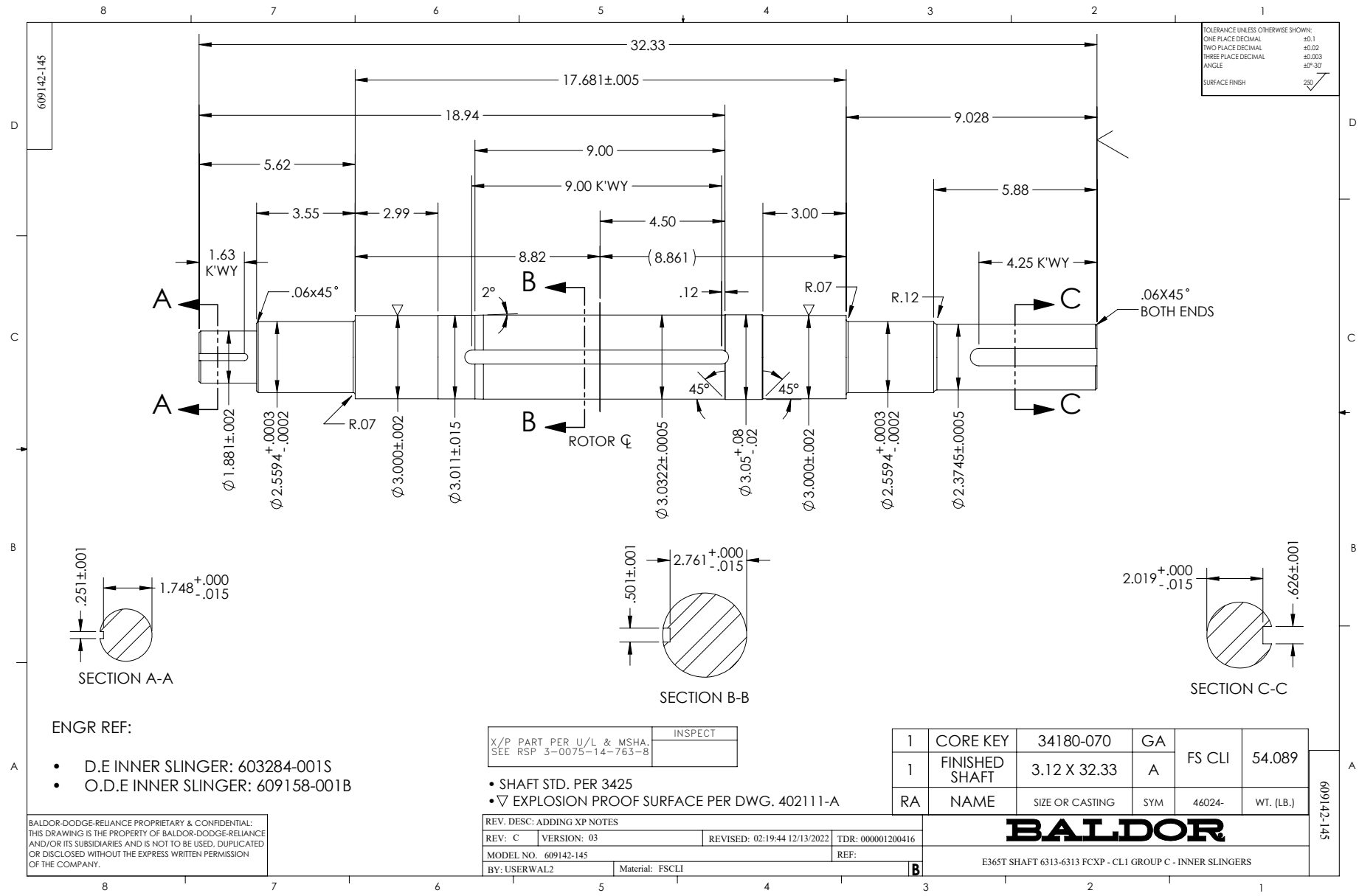
611742-780

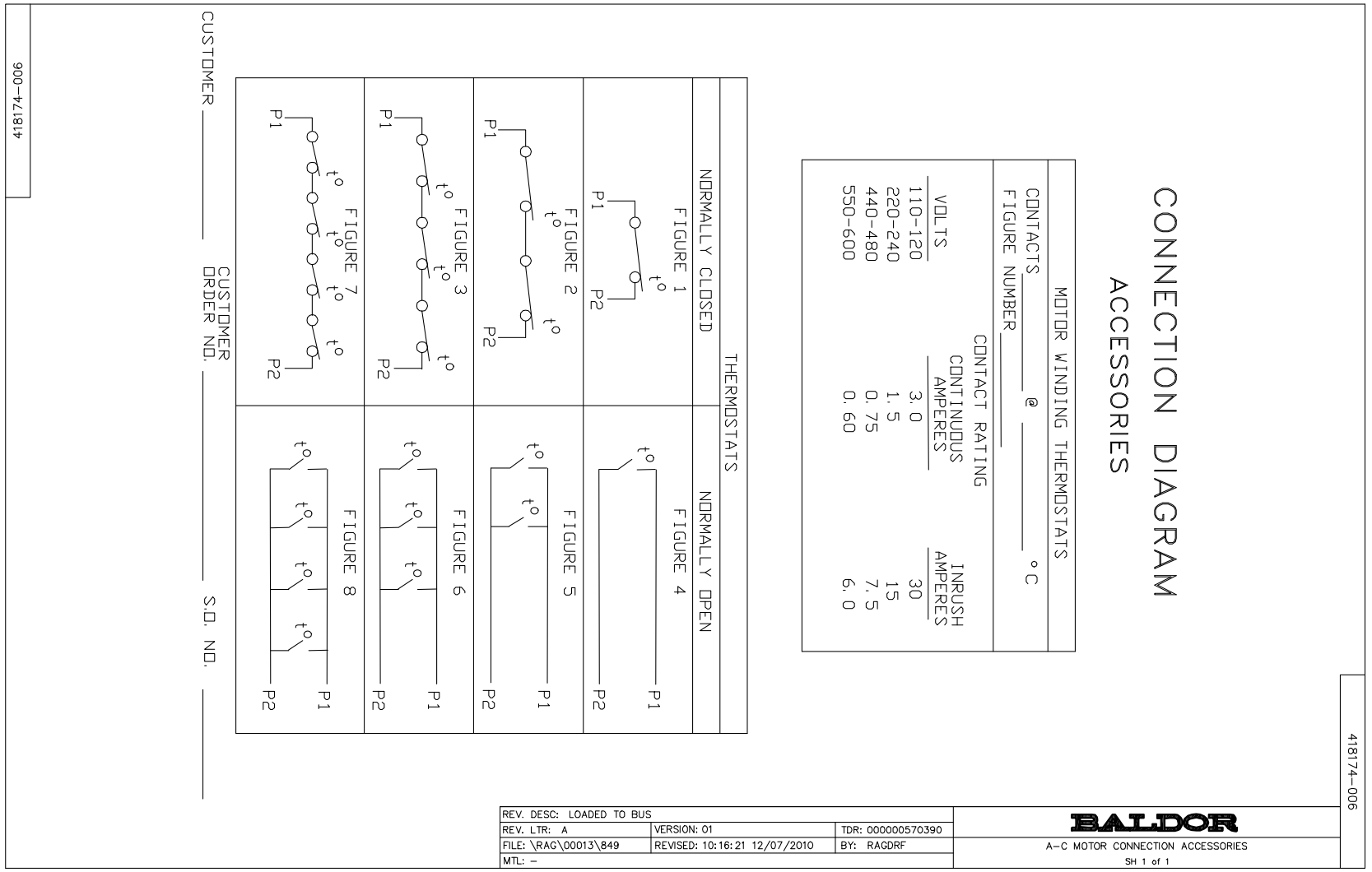
REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 02:26:38 05/21/2019	TDR: 000001109209
MODEL NO. 611742-780			
BY: USJEDIL			C

BALDOR

E365/364TC FCXP F1 FOOT CAST IRON BOX/GROUP C & D/GROUND TAP

611742-780


609142-145
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
17.681±.005
18.94
9.028
9.00
5.62
9.00 K'WY
5.88
3.55
2.99
4.50
3.00
1.63 K'WY
8.82
(8.861)
4.25 K'WY
.06x45°
2°
.12
R.07
R.12
.06X45° BOTH ENDS
45°
45°
R.07
ROTOR ℄
Ø1.881±.002
Ø2.5594 +.0003 -.0002
Ø3.000±.002
Ø3.011±.015
Ø3.0322±.0005
Ø3.05 +.08 -.02
Ø3.000±.002
Ø2.5594 +.0003 -.0002
Ø2.3745±.0005
.251±.001
1.748 +.000 -.015
SECTION A-A
.501±.001
2.761 +.000 -.015
SECTION B-B
2.019 +.000 -.015
.626±.001
SECTION C-C
ENGR REF:
• D.E INNER SLINGER: 603284-001S
• O.D.E INNER SLINGER: 609158-001B
X/P PART PER U/L & MSHA. SEE RSP 3-0075-14-763-8
INSPECT
• SHAFT STD. PER 3425
• ▽ EXPLOSION PROOF SURFACE PER DWG. 402111-A
1 CORE KEY 34180-070 GA FS CLI 54.089
1 FINISHED SHAFT 3.12 X 32.33 A
RA NAME SIZE OR CASTING SYM 46024- WT. (LB.)
BALDOR-DODGE-RELIANCE PROPRIETARY & CONFIDENTIAL: THIS DRAWING IS THE PROPERTY OF BALDOR-DODGE-RELIANCE AND/OR ITS SUBSIDIARIES AND IS NOT TO BE USED, DUPLICATED OR DISCLOSED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COMPANY.
REV. DESC: ADDING XP NOTES
REV: C VERSION: 03 REVISED: 02:19:44 12/13/2022 TDR: 000001200416
MODEL NO. 609142-145 REF:
BY: USERWAL2 Material: FSCLI B
BALDOR
E365T SHAFT 6313-6313 FCXP - CL1 GROUP C - INNER SLINGERS
609142-145


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
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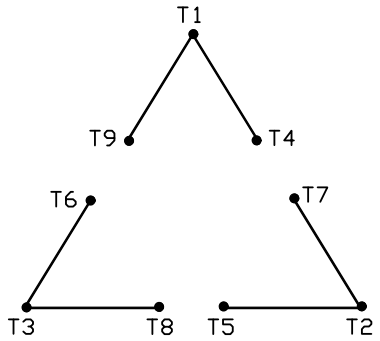
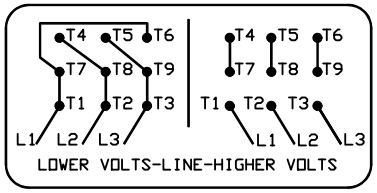
REV. LTR: A
VERSION: 01
TDR: 000000570390
FILE: \RAG\00013\849
REVISED: 10:16:21 12/07/2010
BY: RAGDRF
MTL: -
BALDOR
A-C MOTOR CONNECTION ACCESSORIES
SH 1 of 1
418174-006

416820-002

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





(N. P. 1575-B)

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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