

ABB BALDOR RELIANCE III

Customer information packet

CDRX36744T

75HP, 1785RPM, 3PH, 60HZ, 365TC, A36070M, TEFC

Class - CLI GP C,D

Division - Division I

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

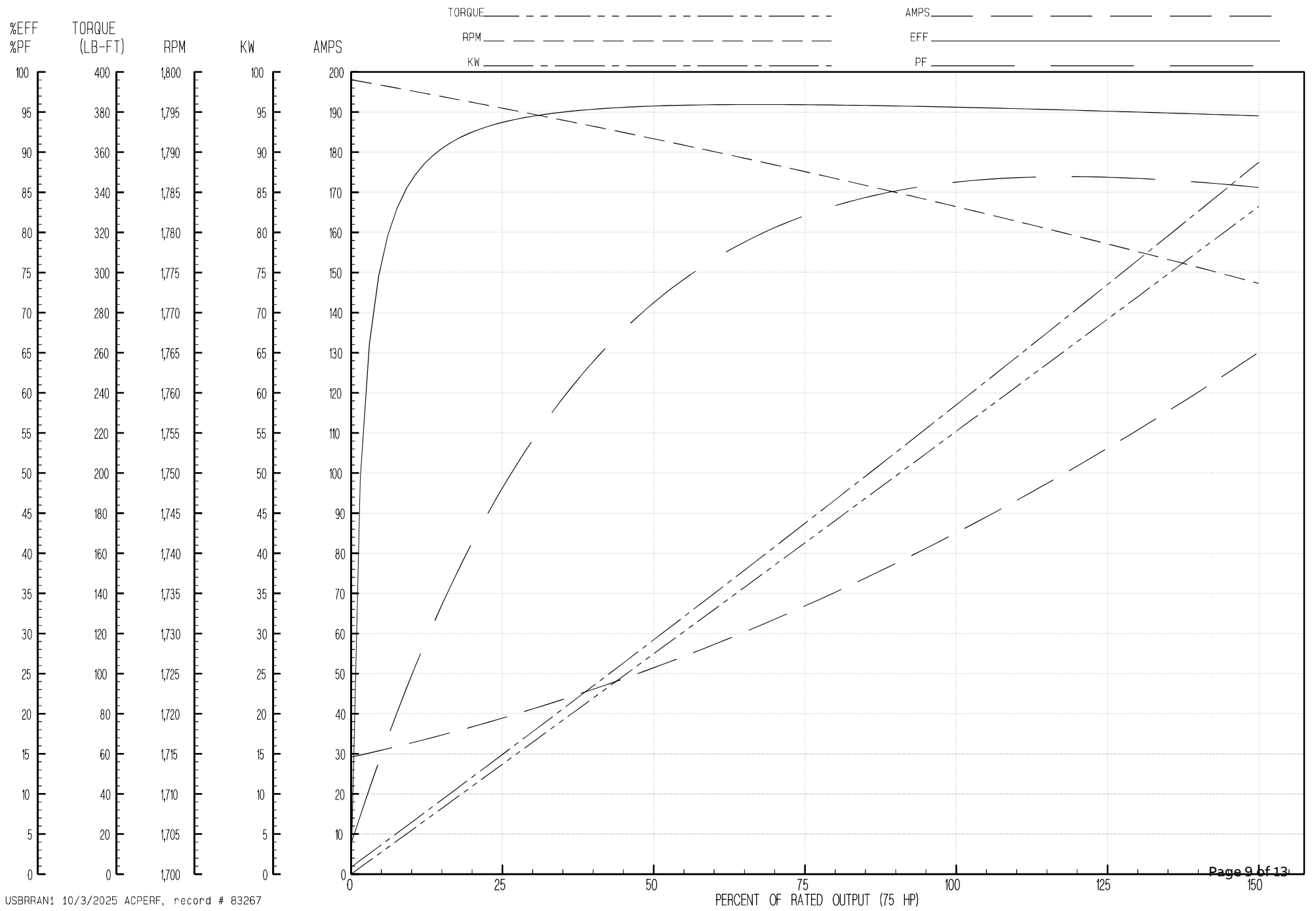
Full Load Torque	220.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	646 LB-FT
Pull-up Torque	387 LB-FT
Locked-rotor Torque	499 LB-FT
Starting Current	627 A
No-load Current	30.8
Line-line Res. @ 25°C	0.07769 Ω
Temp. Rise @ Rated Load	61°C
Temp. Rise @ S.F. Load	0°C
Locked-rotor Power Factor	32.9
Rotor inertia	16.2 lb-ft ²

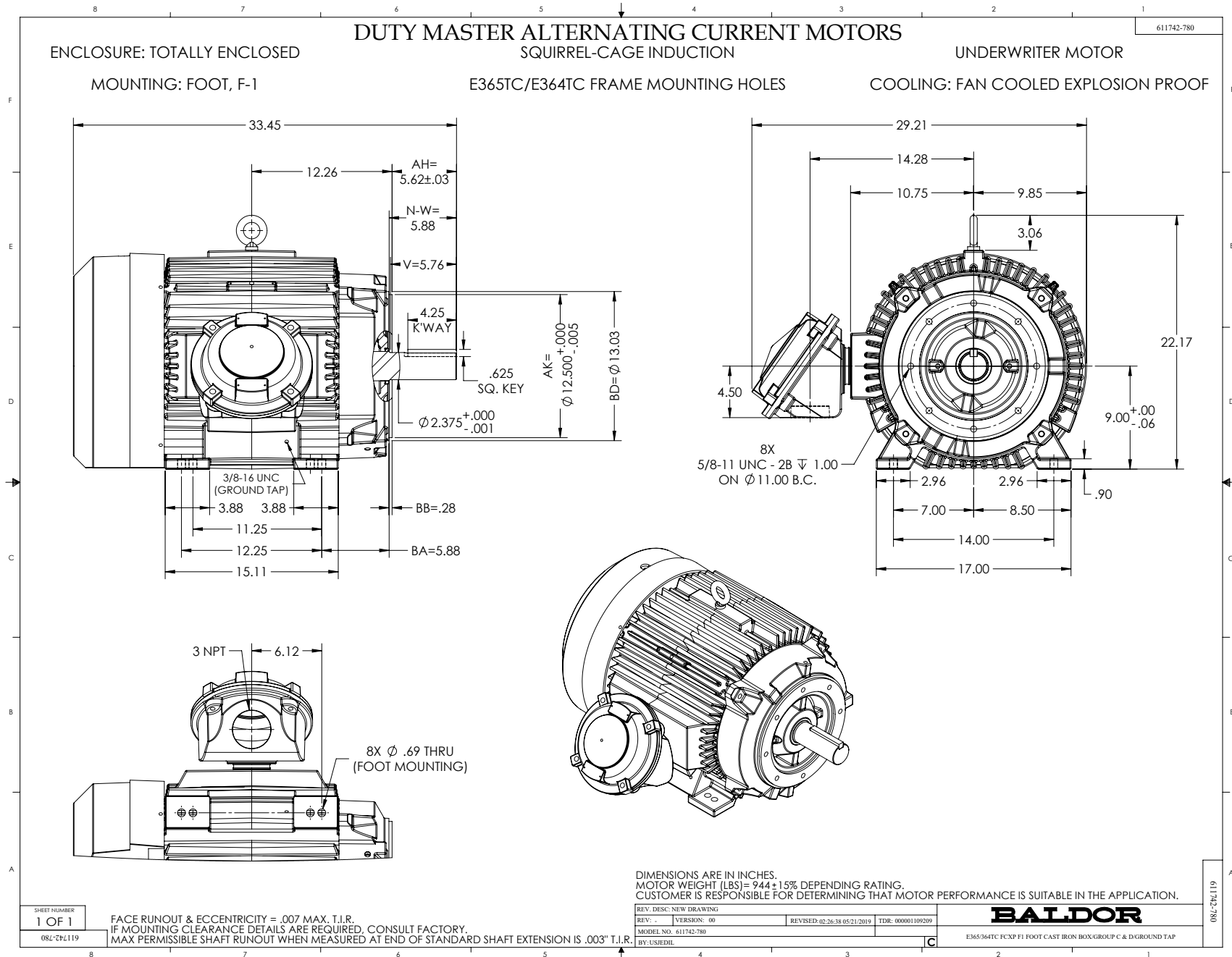
Load Characteristics 460 V, 60 Hz, 75 HP

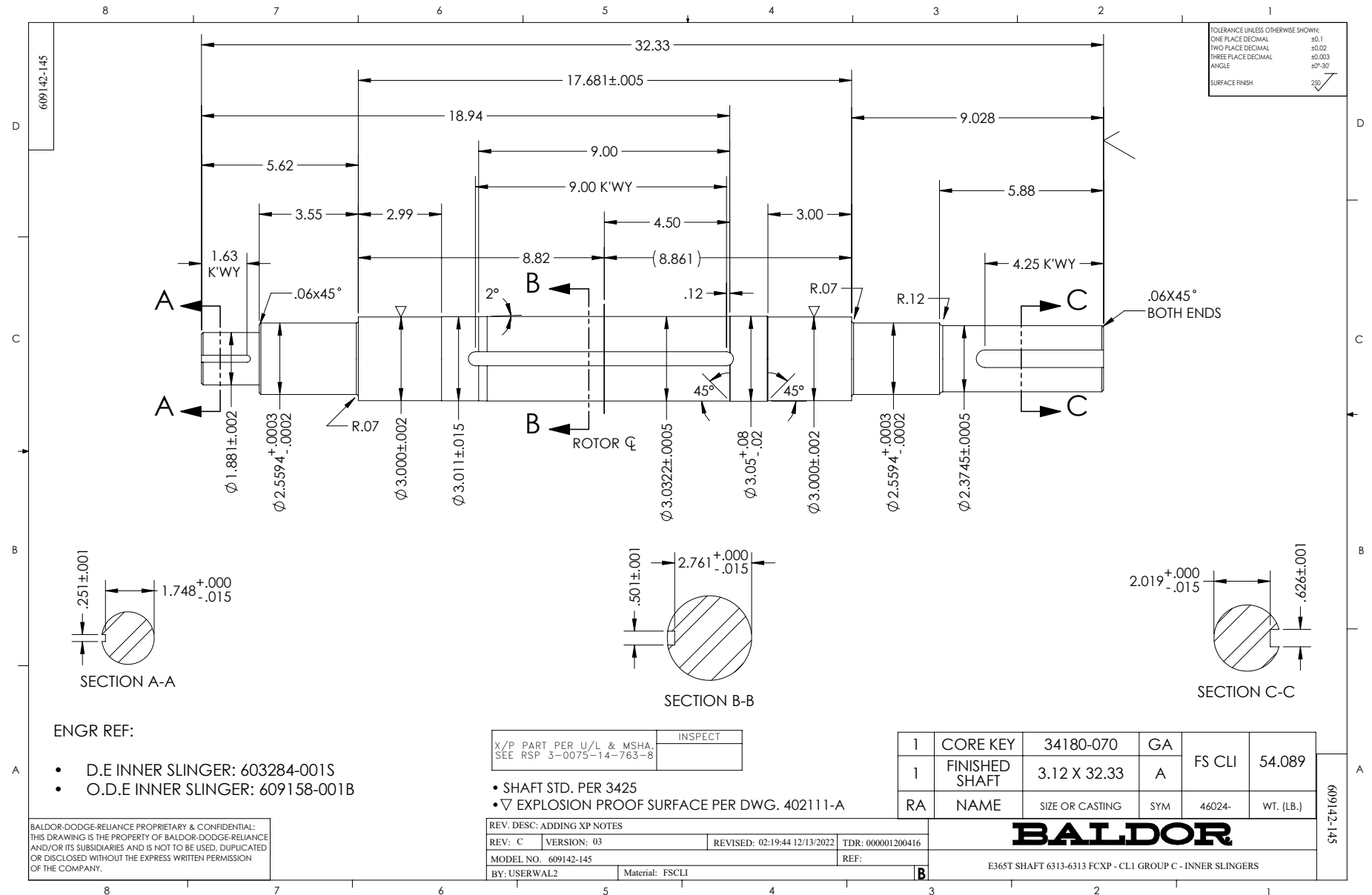
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	3	51	73	81	85	86	86	0
Efficiency	0	93.5	95.6	95.9	95.6	95.1	94.4	0
Speed	1798.9	1795.7	1791.7	1787.7	1782.8	1778.9	1773.6	0
Line amperes	30.8	36.9	50.3	67.3	86.2	107	129	0

Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 1780 RPM 460 V A3670M
TORQUES (LB-FT): P0=646.00 PU=387.00 LR=499.00 LRA=627.00

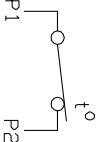
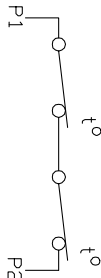
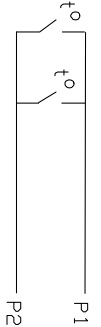
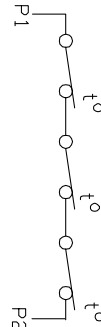
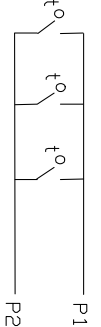
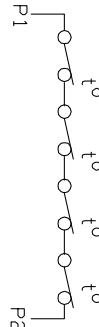
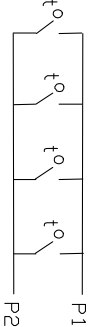






CONNECTION DIAGRAM
ACCESSORIES

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 4 
FIGURE 2 	FIGURE 5 
FIGURE 3 	FIGURE 6 
FIGURE 7 	FIGURE 8 

CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

418174-006

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: -		

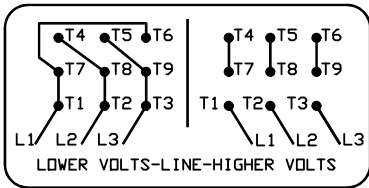
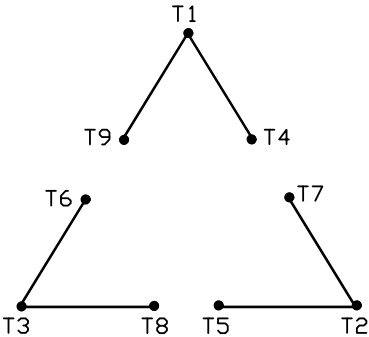
BALDOR

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: -



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002