

ABB BALDOR RELIANCE III

Customer information packet

CEM7068T-I

75//60HP, 1780//1480RPM, 3PH, 60//50HZ, 365T

Class - CLI GP C,D

Division - Division I

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	

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							CEM7068T-I - 75//60HP, 1780//1480RPM, 3PH, 60//50HZ, 365T																																		
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																																																
														DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>08/24/10</u>														AC MOTOR PERFORMANCE DATA							A36WG0798-R002 DATE ISSUED 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

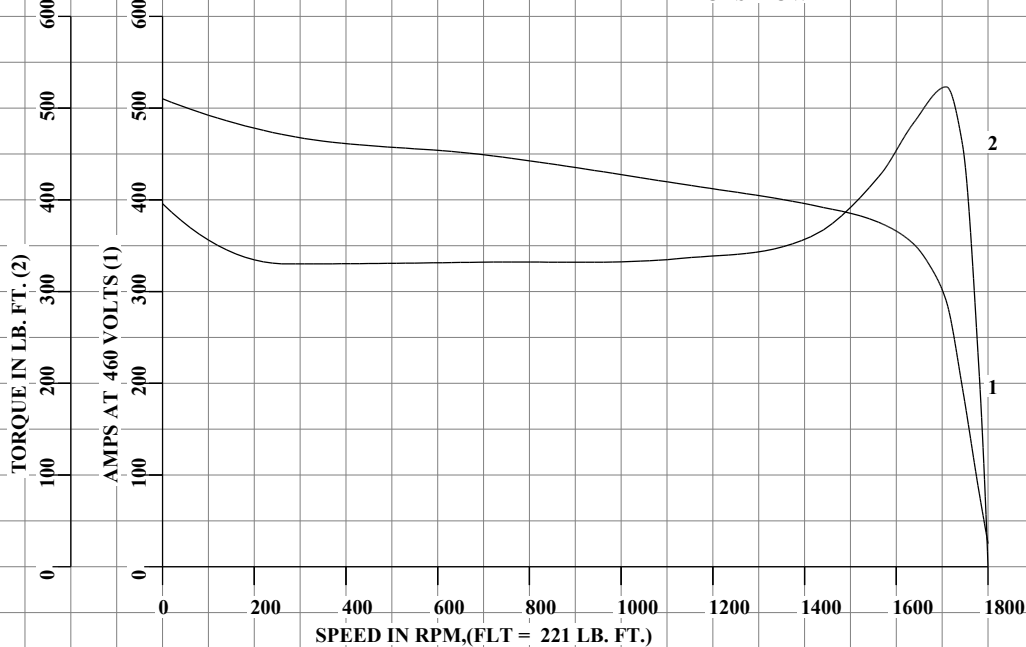
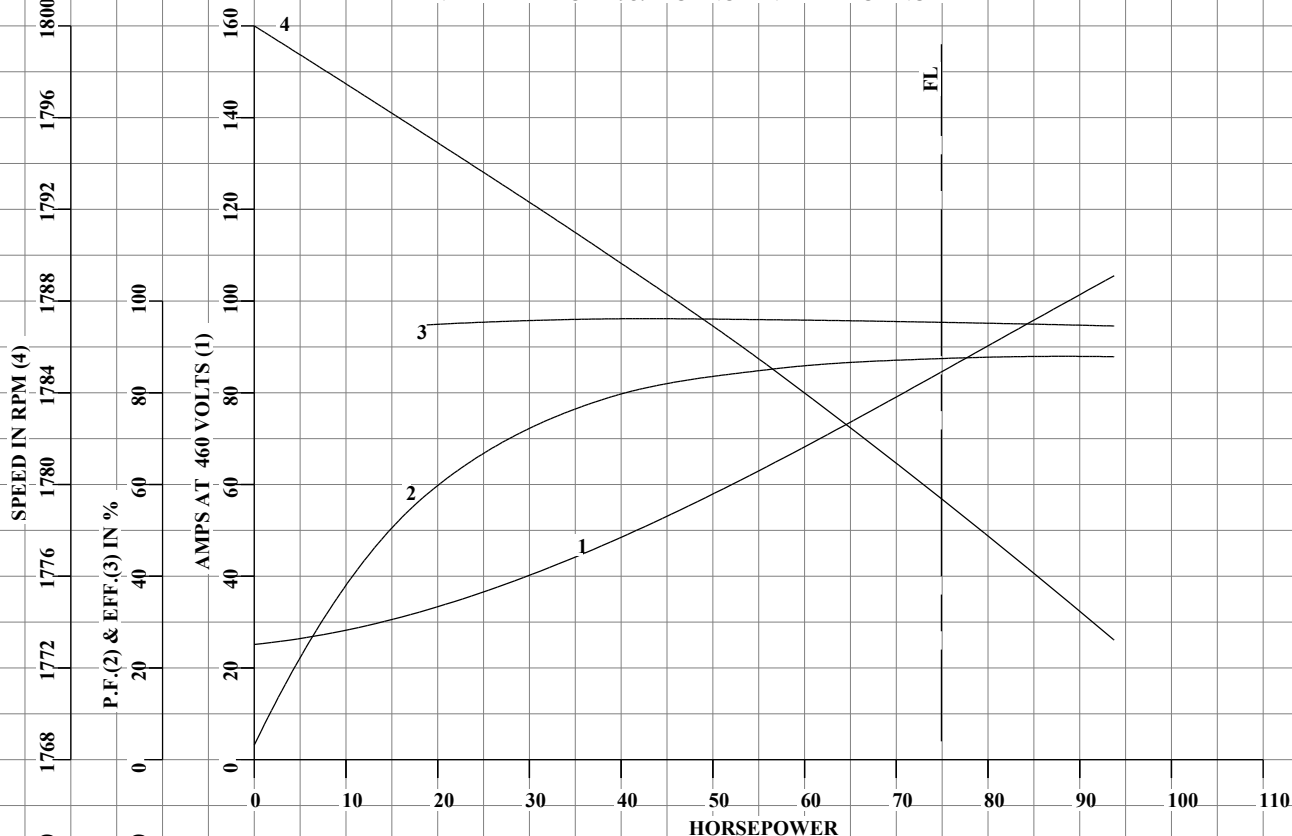
STATOR RES. @ 25°C .0216/.0867

AMB °C / INSUL 40/F

E/S 892275

OHMS (BETWEEN LINES)

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.



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

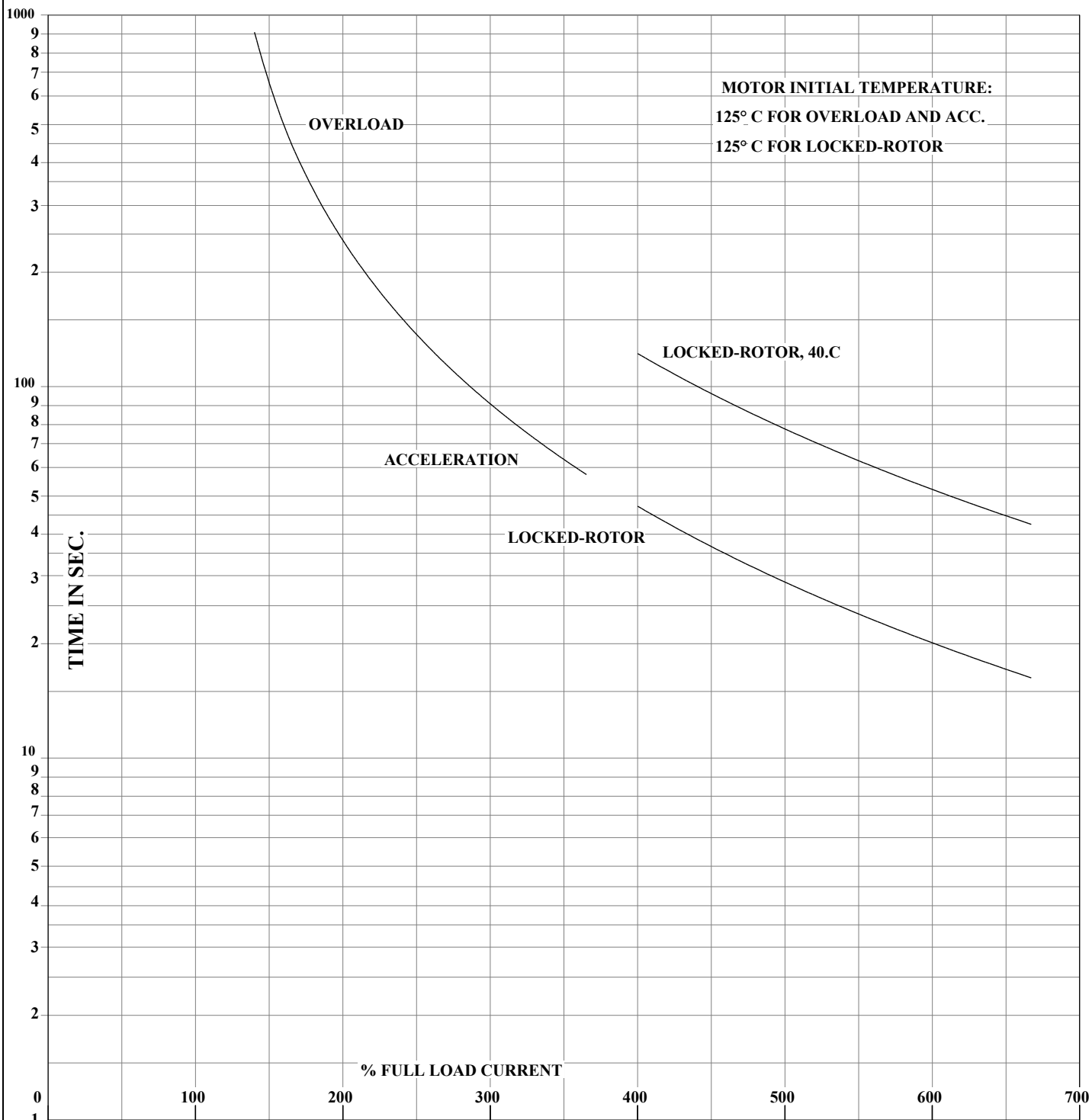
ENCLOSURE XPFC

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.



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DATE: 08/24/10

AC MOTOR
PERFORMANCE
DATA

A36WG0798-R002

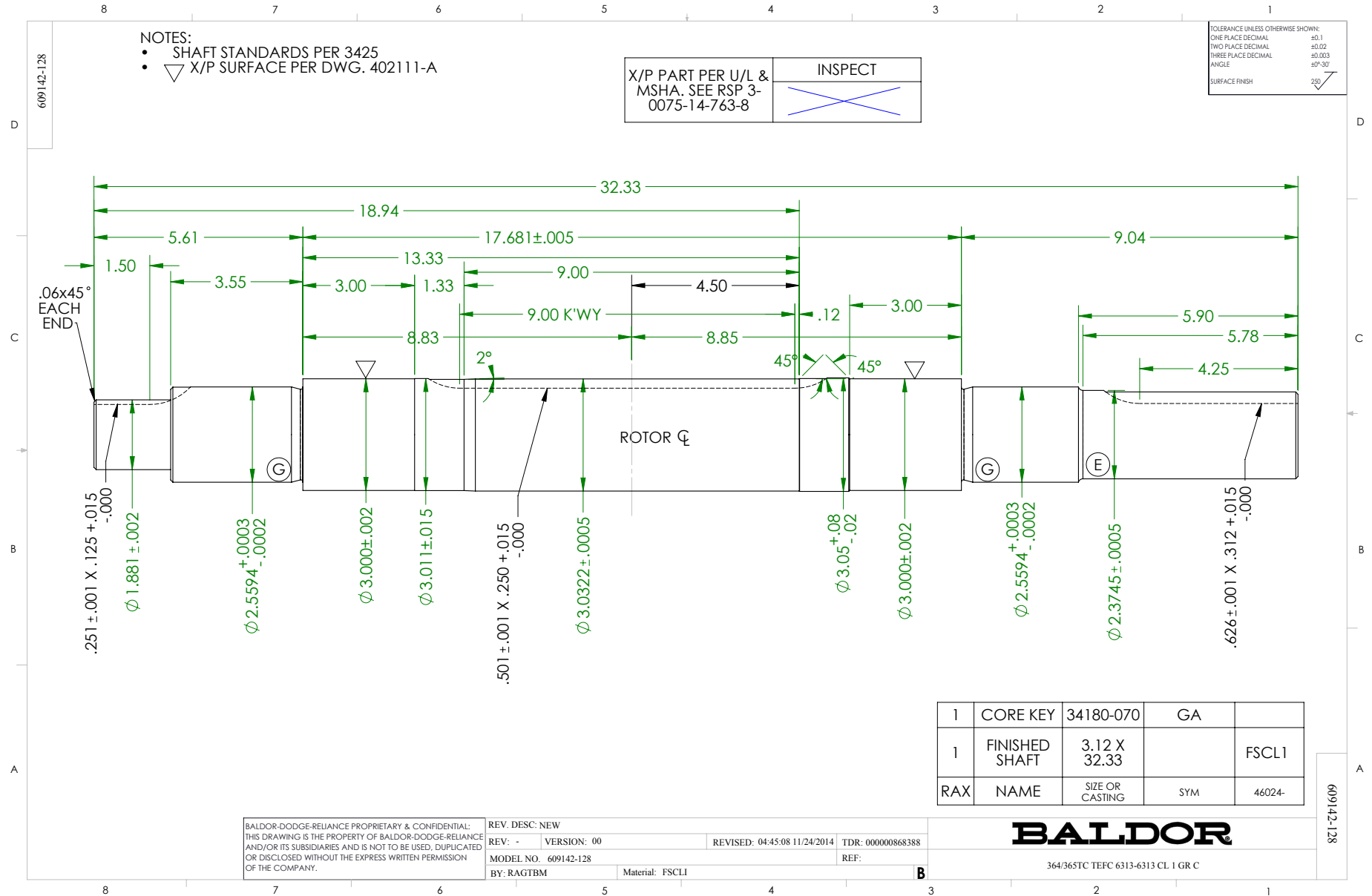
ISSUE DATE 01/07/11

616512-502

COOLING: FAN-COOLED

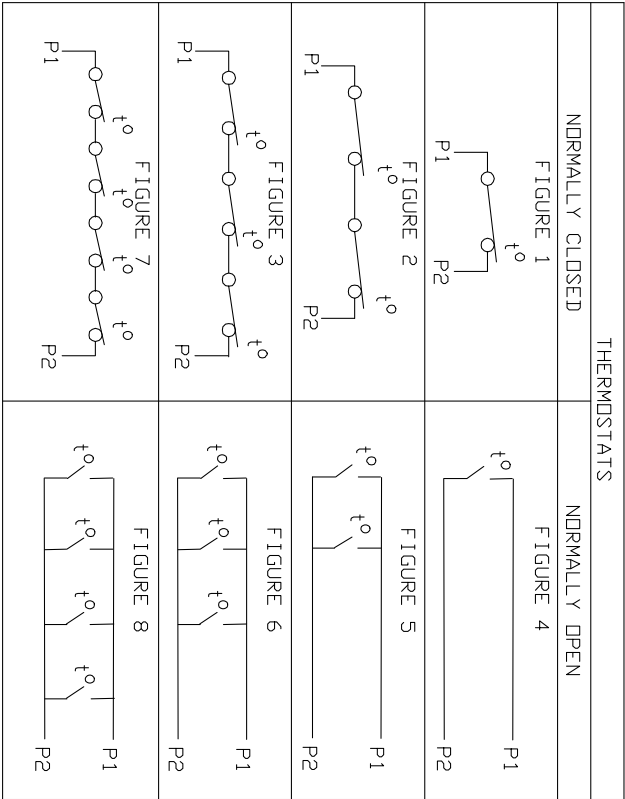
A detailed technical line drawing of a three-phase asynchronous motor. The motor is shown from a perspective view, highlighting its cylindrical body with a cooling fan on the front. The fan has multiple blades and is mounted on a central shaft. The motor's frame is shown with mounting feet and a terminal box on the side. The drawing is a black and white line art, typical of technical manuals.

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



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



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: -		

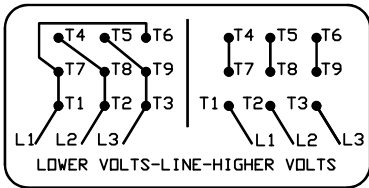
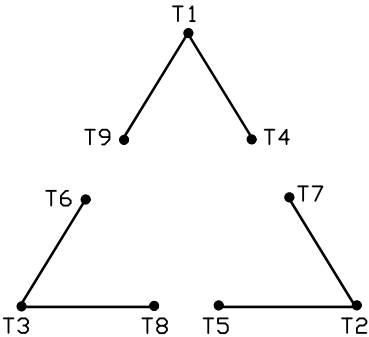
BALDOR

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