

ABB BALDOR RELIANCE III

Customer information packet

CCPX36566T

50HP, 1185RPM, 3PH, 60HZ, 365TC, TEFC, F1

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	TEFC
Frame	365TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA CCSAUSEEV
Ambient Temperature	40 °C
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	124.000 A @ 230.0 V 61.900 A @ 460.0 V
Design Code	A
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	61.9 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG3910
Layout	611742-778
Eff. date	04-25-2019
CD Diagram	416820-002
Poles	06
Leads	9#4
Proprietary	False
Created date	04-16-2019

KVA Code	G
Max Speed	3000 rpm
Motor Lead Quantity/Wire Size	9 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3668M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.48 IN
Power Factor	80
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	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2496L	
MOBIL POLYREX EM	

000692000FX



000613006PC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	E F G	
OPERATING TEMP CODE	T3C	

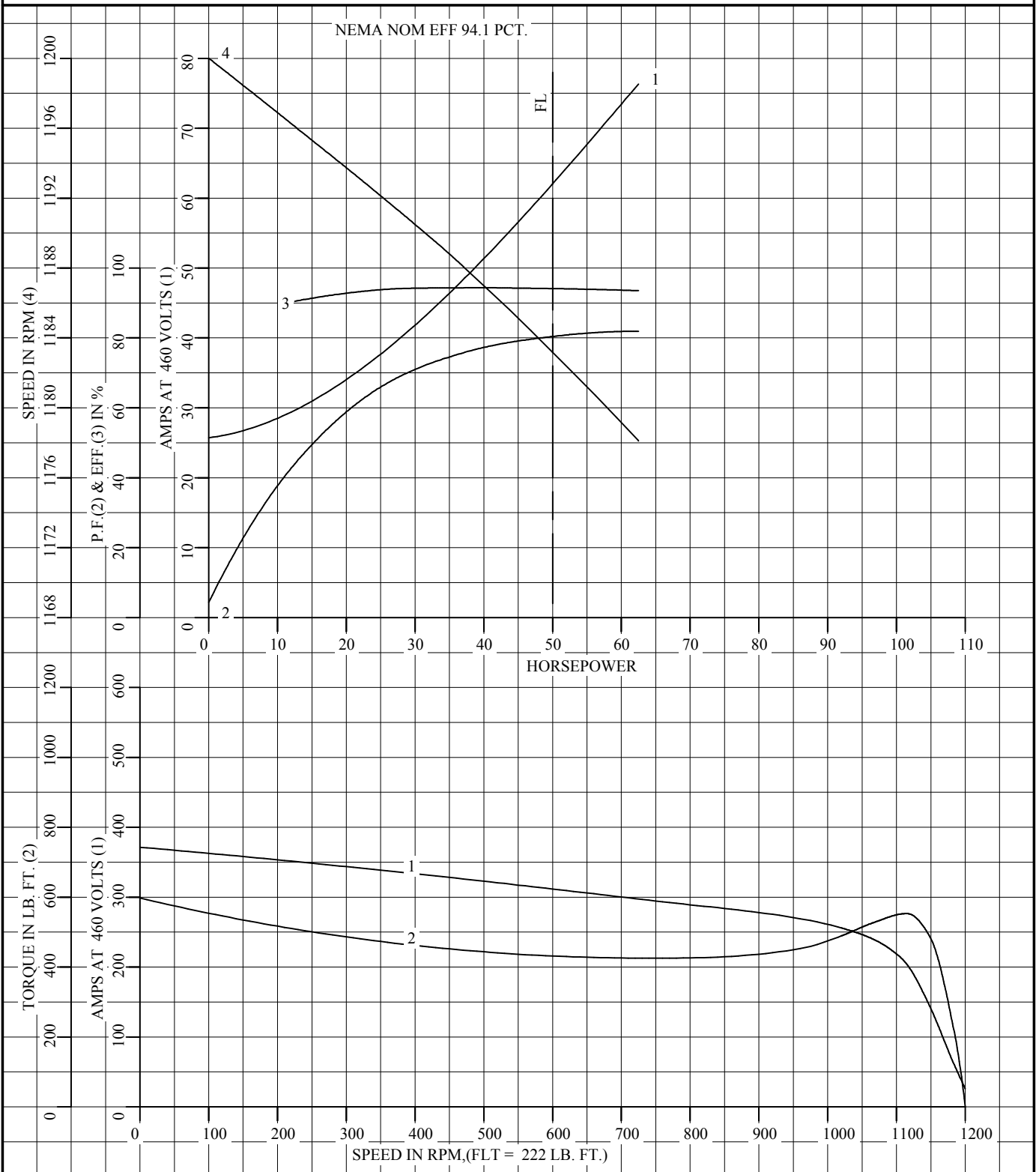
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SUITABLE FOR 55C AMB AT 1.00 S	F AT SINEWAVE

NP3140L

SPEC NO.	A36-5002-3910			CAT.NO.	CCPX36566T					FRAME	365TC
HP	50	VOLTS	230/460	PHASE	3	DESIGN	A	TYPE	P		
RPM	1185	AMPS	124/61.9	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		MAG CUR	51.6/25.8	RPM MAX	3000				
CT HZ	6-60	VT HZ	6-60	CHP HZ	60-90	NEMA-NOM-EFF	94.1				
	IP66										
SER.NO.				MOTOR WEIGHT							

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365TC	50	P	3/60	1185	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
124/61.9	CONT	40/F	1.00	A	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
---	418141-080-TE	---	---	.0290/.116		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	25.8	1200	4.36	0	
1/4	12.5	29.5	1196	44.0	90.5	
2/4	25.0	37.9	1192	66.0	93.8	
3/4	37.5	48.9	1188	76.0	94.3	
4/4	50.0	61.9	1183	80.4	94.1	
5/4	62.5	76.4	1178	81.9	93.5	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	269	598	371	
PULL UP		740	192	425	296	
BREAKDOWN		1115	249	553	204	
FULL LOAD		1183	100	222	61.9	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA NEMA NOM EFF 94.1 PCT.						
		DR. BY T. KELATI		A-C MOTOR PERFORMANCE DATA A36WG3910-R003 ISSUE DATE 04/16/19		
		CK. BY T. KELATI				
		APP. BY E. J. CHRISTIAN				
		DATE 02/03/2015				

REL S.O.	RPM 1185	S.F. 1.00	ROTOR 418141-080-TE
FRAME 365TC	VOLTS 230/460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
HP 50	AMPS 124/61.9	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0290/.116
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S ---	OHMS (BETWEEN LINES)



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

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY T.KELATI
CK. BY T.KELATI
APP. BY E.J.CHRISTIAN
DATE 02/03/2015

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG3910-R003

ISSUE DATE 04/16/19

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REL. S.O.

 RPM **1185**

 S.F. **1.00**

 ROTOR **418141-080-TE**

 FRAME **365TC**

 VOLTS **230/460**

 NEMA DESIGN **A**

 TEST S.O. **TYPICAL DATA**

 HP **50**

 AMPS **124/61.9**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

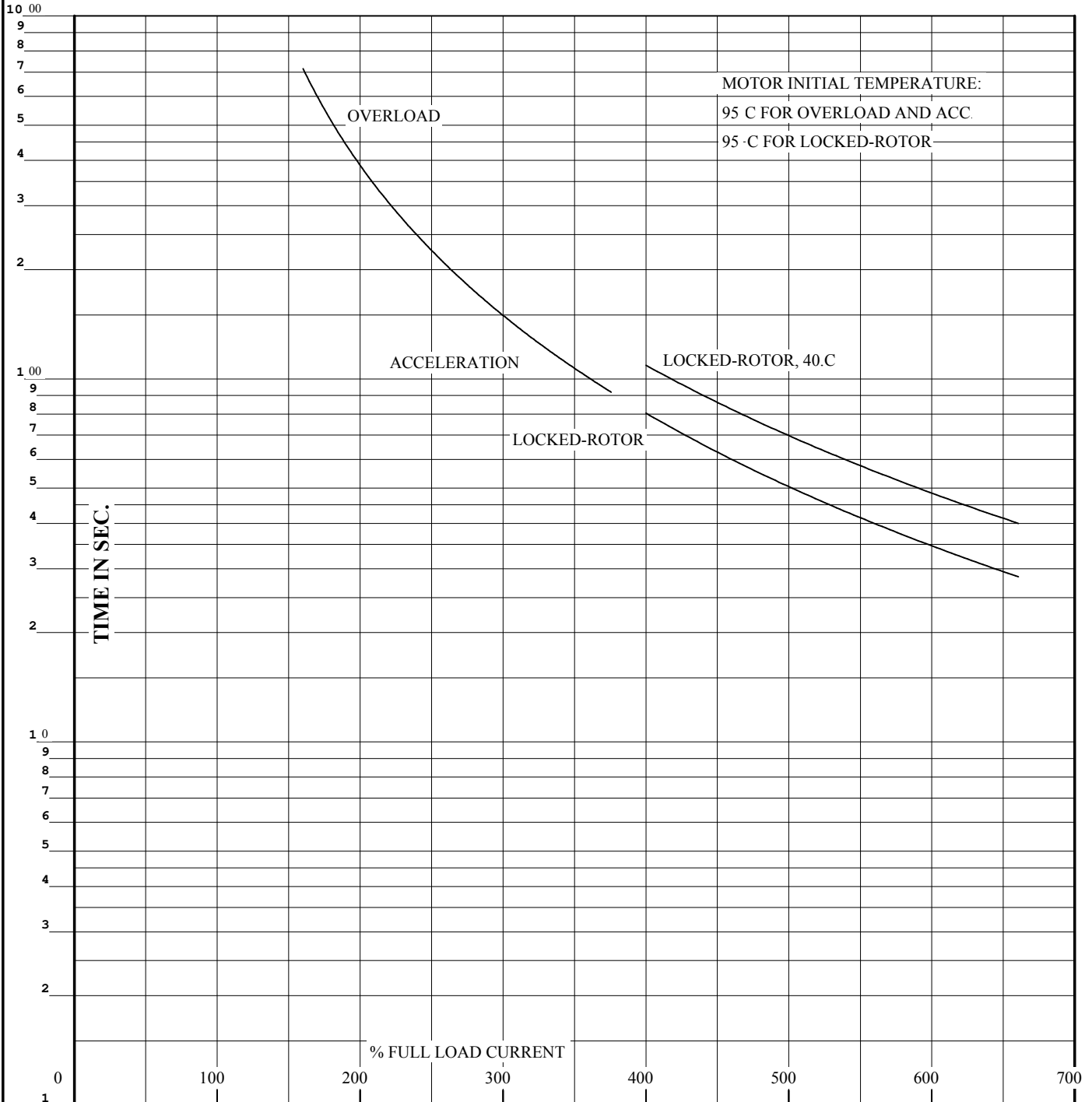
 STATOR RES. @ 25 °C **.0290/.116**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **---**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

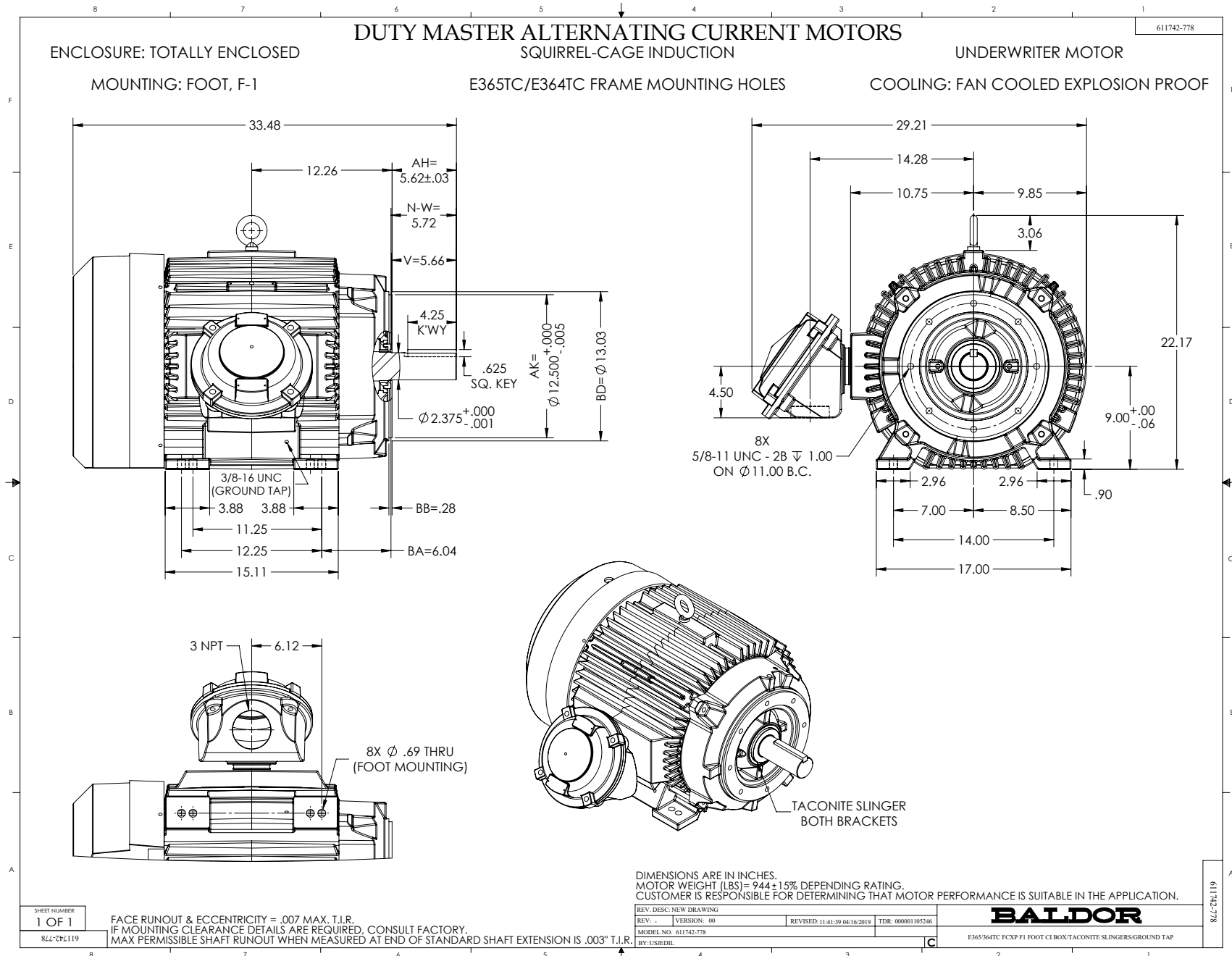
NEMA NOM EFF 94.1 PCT.

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

BALDOR
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 DR. BY T.KELATI
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**A-C MOTOR
PERFORMANCE
CURVES**
A36WG3910-R003

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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
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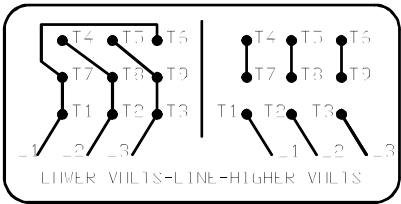
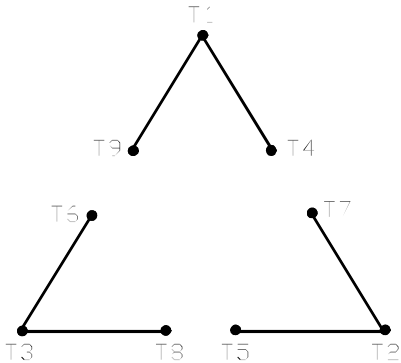
BALDOR

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: FONT CHANGE FOR PDF SEARCHABLE		
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FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002