

ABB BALDOR RELIANCE III

Customer information packet

ECP84310T-4

60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	364TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	0.7-60
Current @ Voltage	65.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	65.1 a
Insulation Class	F

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0130
Layout	617428-510
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	02
Leads	3#4
Proprietary	False
Created date	11-27-2018

Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	F
Lifting Lugs	No Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
No Load Current	14.1 a
Number of Poles	2
Overall Length	31.37 IN
Power Factor	90
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	3560 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4388														
CAT #	ECP84310T-4					FR	364TS			IP56				
SPEC	A36-6000-0130					ENCL	TEFC			DES	B			
HZ	60	PH	3	CL	F	HP	60	SF	1.15	PF	90	%	CODE	F
VOLTS	460					AMPS	65.1							
RPM	3560		MAX RPM	4500		SER								
NEMA NOM. EFF	95	%	RATING	40C AMB-CONT										
GUAR MIN. EFF	94.1	%	BRG DE	6313			BRG ODE	6313						
CL I DIV 2 GRPS A,B,C,D	CL I ZONE 2 GRPS					IIA,IIB,IIC			TEMP T	3-200		C		
CT HZ	0.7-60		VT HZ	0-60										
CHP HZ	60-75		INV TEMP CL	200		C								
							MTR WT	959		LBS				

NP4333

CAT #	ECP84310T-4	ROTOR BARS	38
SPEC	A36-6000-0130	STATOR SLOTS	48
SER		MAX CORR KVAR	5
GREASE	POLYREX EM		
ABMA DE BRG	65BC03J30X	ODE	65BC03J30X

SPACE HEATER LEADS H1-H2:	TIE LIKE NUMBERS	TOGETHER		
MAX. SPACE HEATER TEMP.	C	V	A	W

CUSTOMER INFORMATION PACKET		ECP84310T-4 - 60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC				
FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS	
364	60	P	3/60	3560	460	

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
65.1	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
491282	418141005XE	---	---	.101

PERFORMANCE


LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	14.1	3600	6.54	0
1/4	15.0	20.8	3590	72.8	93.1
2/4	30.0	33.4	3580	88.2	95.3
3/4	45.0	48.6	3570	90.7	95.5
4/4	60.0	65.1	3559	90.7	95.1
5/4	75.0	82.2	3547	90.3	94.5

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	203	180	435
PULL UP	1565	176	156	355
BREAKDOWN	3397	233	206	212
FULL LOAD	3559	100	88.5	65.1

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

TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 95.0 %
GUARANTEED MIN. EFF. 94.1%

	DRAWN BY: G. R. WEBB	AC MOTOR PERFORMANCE DATA	A36WG0130-R006
	CHECKED BY: J.J.HARRISON APPROVED BY: E.J.CHRISTIAN DATE: 07/31/02		

FRAME 364

RPM 3560

S.P. 1.15

ROTOR 418141005XE

HP 60

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 65.1

CODE LETTER G

TEST DATE ---

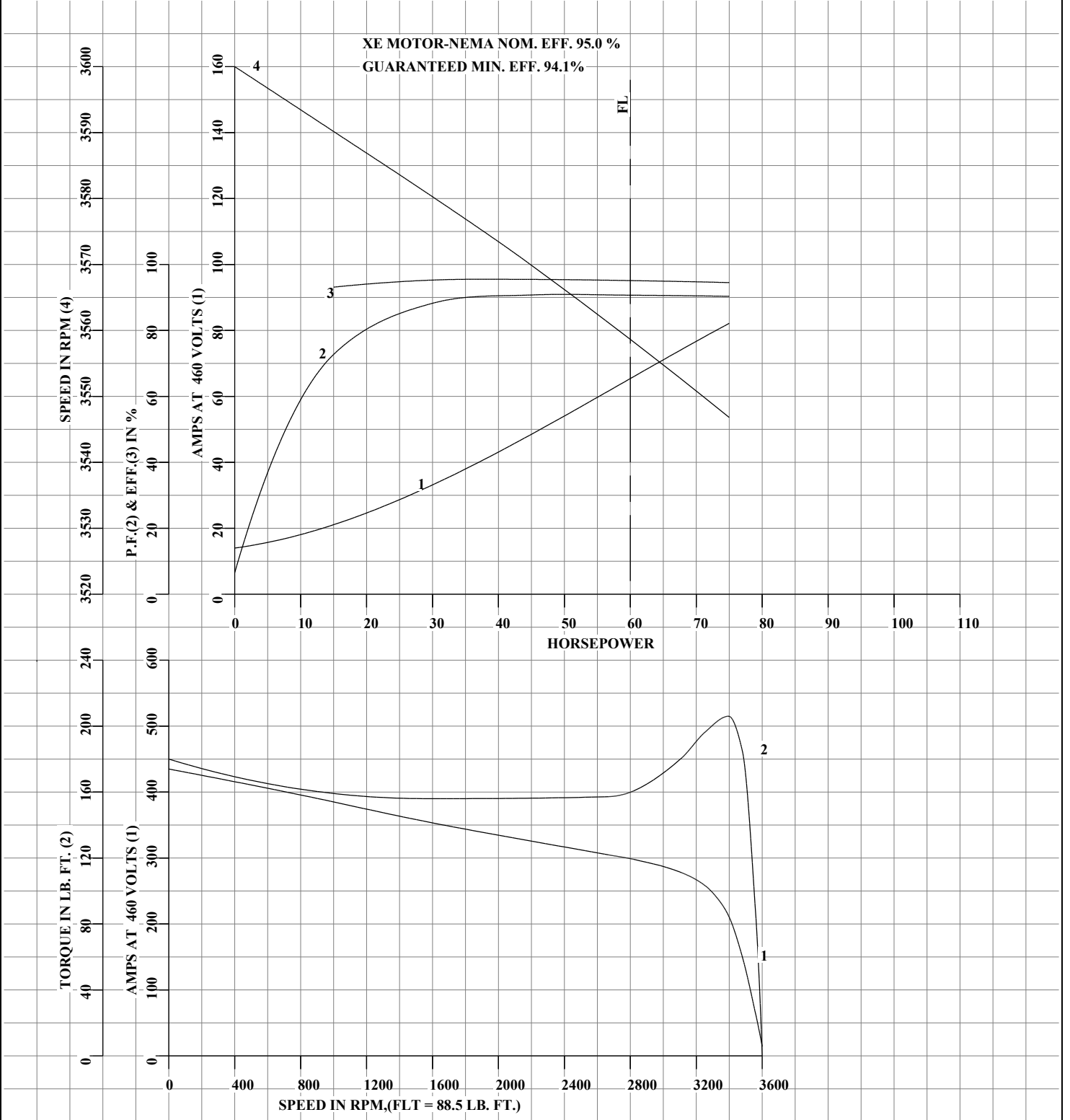
PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

STATOR RES. @ 25°C .101

OHMS (BETWEEN LINES)



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



DRAWN BY: G. R. WEBB
 CHECKED BY: J.J.HARRISON
 APPROVED BY: E.J.CHRISTIAN
 DATE: 07/31/02

AC MOTOR
 PERFORMANCE
 DATA

A36WG0130-R006

ISSUE DATE 05/13/21

FRAME 364

RPM 3560

S.F. 1.15

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

VOLTS 460

CODE LETTER G

TEST DATE ---

TYPE P

AMPS 65.1

DUTY CONT

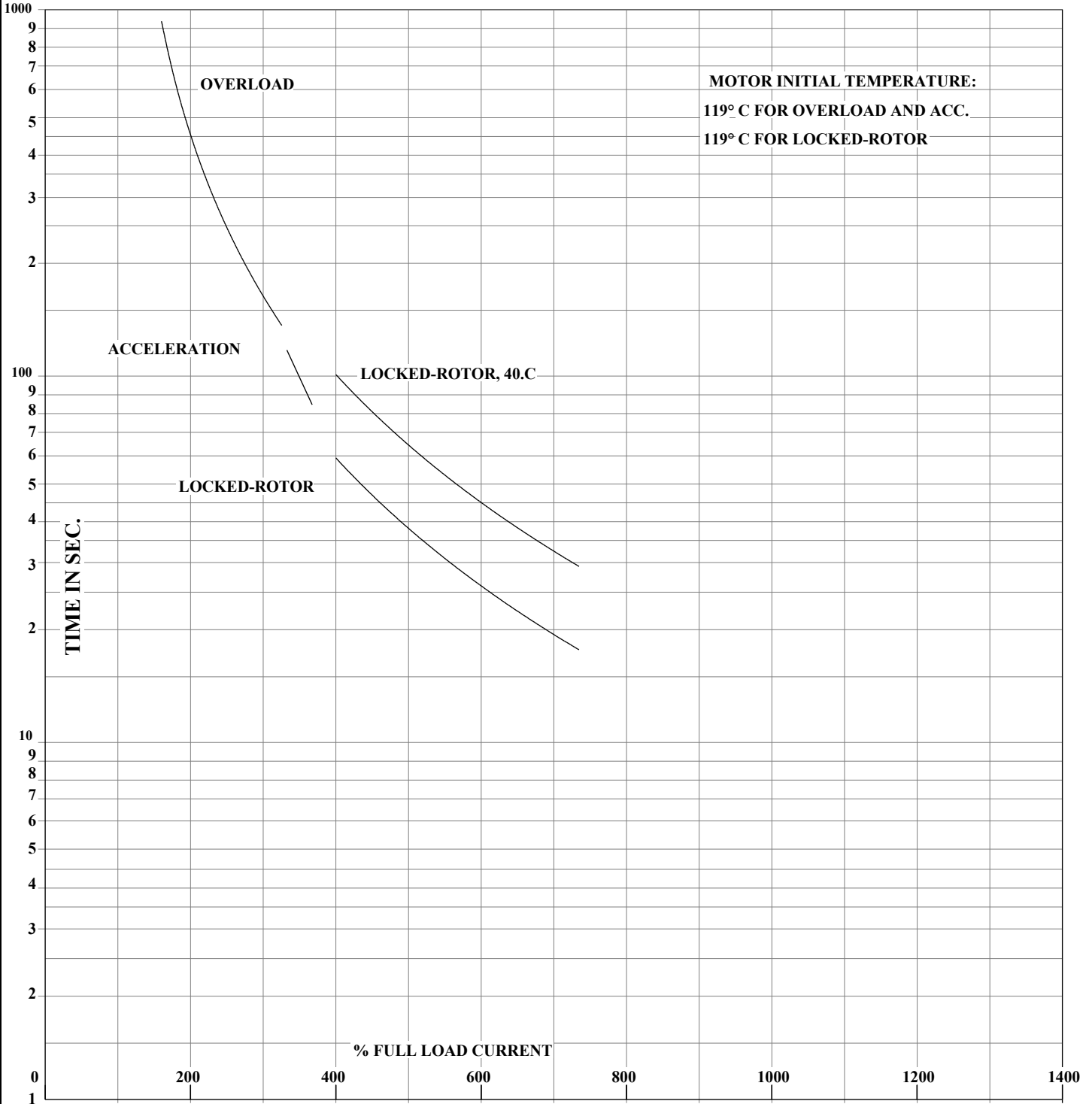
ENCLOSURE TEFC

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 491282

STATOR RES. @ 25°C .101
OHMS (BETWEEN LINES)



MOTOR INITIAL TEMPERATURE:
119° C FOR OVERLOAD AND ACC.
119° C FOR LOCKED-ROTOR

THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 95.0 %

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

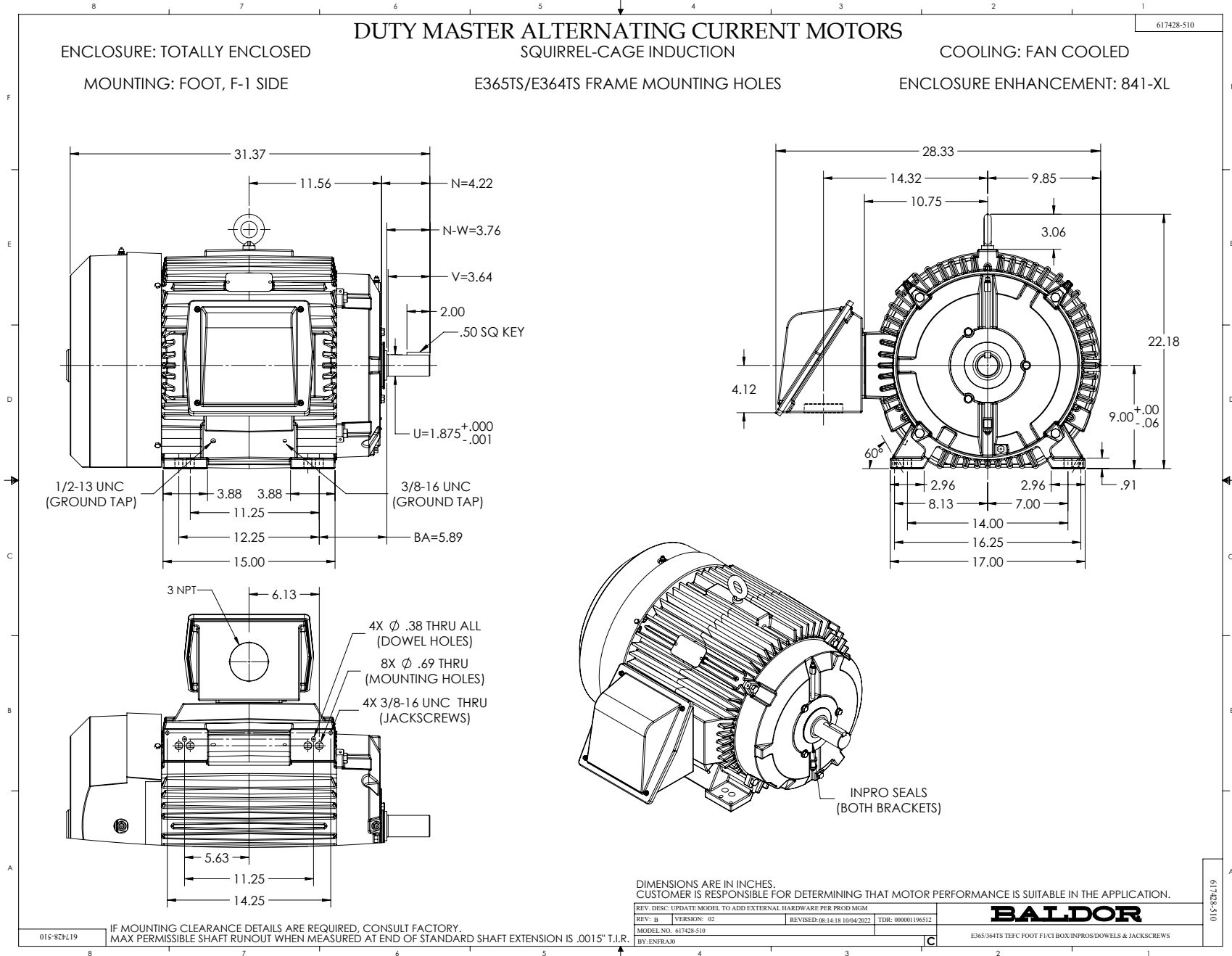


DRAWN BY: G. R. WEBB
CHECKED BY: J.J.HARRISON
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DATE: 07/31/02

AC MOTOR
PERFORMANCE
DATA

A36WG0130-R006

ISSUE DATE 05/13/21



416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682	REVISED: 11: 54: 06 04/30/2010	
MTL: -	BY: RAGRA	

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1