

ABB BALDOR RELIANCE III

Customer information packet

ECP84310T-5

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	575.0 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	15-60
Current @ Voltage	52.000 A @ 575.0 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	52.0 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0456
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	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	None
Motor Type	A36056M
Mounting Arrangement	F1
No Load Current	11.3 a
Number of Poles	2
Overall Length	31.37 IN
Power Factor	91
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-5						FR	364TS			IP56						
SPEC	A36-6000-0456						ENCL	TEFC			DES	B					
HZ	60	PH	3	CL	F	HP	60	SF	1.15	PF	91	%	CODE	G			
VOLTS	575					AMPS	52										
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	15-60		VT HZ		0-60												
CHP HZ	60-75		INV TEMP CL				200	C									
							MTR WT		932	LBS							

NP4333									
CAT #		ECP84310T-5		ROTOR BARS		40			
SPEC		A36-6000-0456		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	

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					ECP84310T-5 - 60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC				
		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS				
		364TS	60	P	3/60	3560	575				
AMPS		DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE				
52		CONT	40/B	1.15	B	G	TEFC				
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)							
491284	418141005XE	---	---	.159							
PERFORMANCE											
LOAD	HP	AMPERES	RPM	% POWER FACTOR		% EFFICIENCY					
NO LOAD	0	11.3	3600	6.54		0					
1/4	15.0	16.6	3590	72.8		93.1					
2/4	30.0	26.7	3580	88.2		95.3					
3/4	45.0	38.9	3570	90.7		95.5					
4/4	60.0	52.1	3559	90.7		95.1					
5/4	75.0	65.8	3547	90.3		94.5					
SPEED TORQUE											
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES							
LOCKED ROTOR	0	203	180	348							
PULL UP	1565	176	156	284							
BREAKDOWN	3397	233	206	170							
FULL LOAD	3559	100	88.5	52.1							
AMPERES SHOWN FOR 575 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. 94.5%											
		DRAWN BY: <u>J.J.HARRISON</u> CHECKED BY: <u>W.L.SMITH</u> APPROVED BY: <u>D. M. BYRD</u> DATE: <u>01/27/03</u>		AC MOTOR PERFORMANCE DATA		A36WG0456-R001 DATE ISSUED 09/26/18					

FRAME 364TS

HP 60

TYPE	P
1	0.0000
2	0.0000
3	0.0000
4	0.0000
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97	0.0000
98	0.0000
99	0.0000
100	0.0000

PHASE / HERTZ 3/60

CUSTOMER INFORMATION PACKET

RPM 3560

VOLTS 575

AMPS 52

DUTY CONT

AMB °C / INSUL 40/B

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S.F. 1.15

NEMA DESIGN B

CODE LETTER G

ENCLOSURE TEFC

E/S 491284

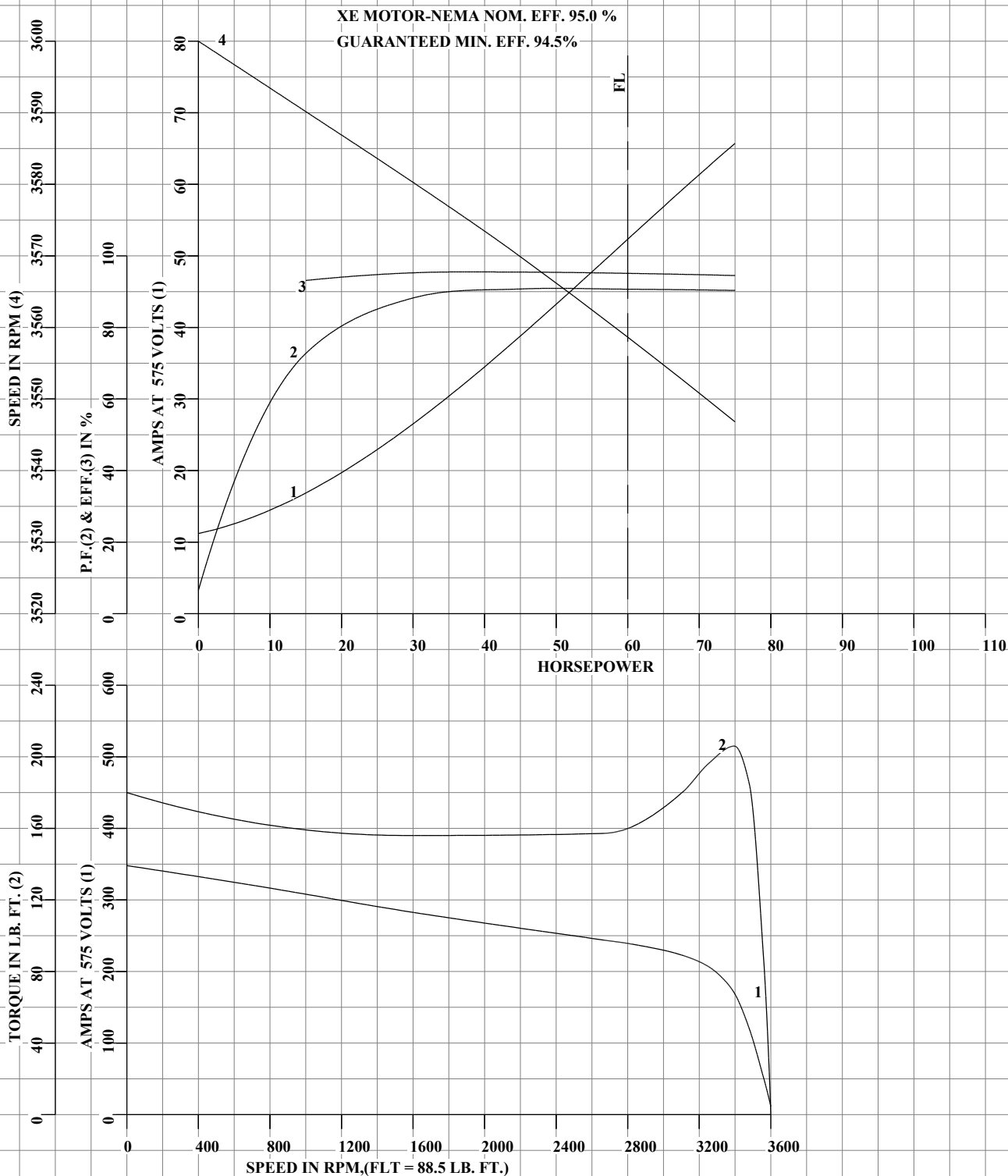
ROTOR 418141005XE

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25°C .159

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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AC MOTOR PERFORMANCE DATA

A36WG0456-R001

ISSUE DATE 09/26/18

FRAME 364TS

RPM 3560

S.F. 1.15

ROTOR 418141005XE

HP 60

VOLTS 575

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 52

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

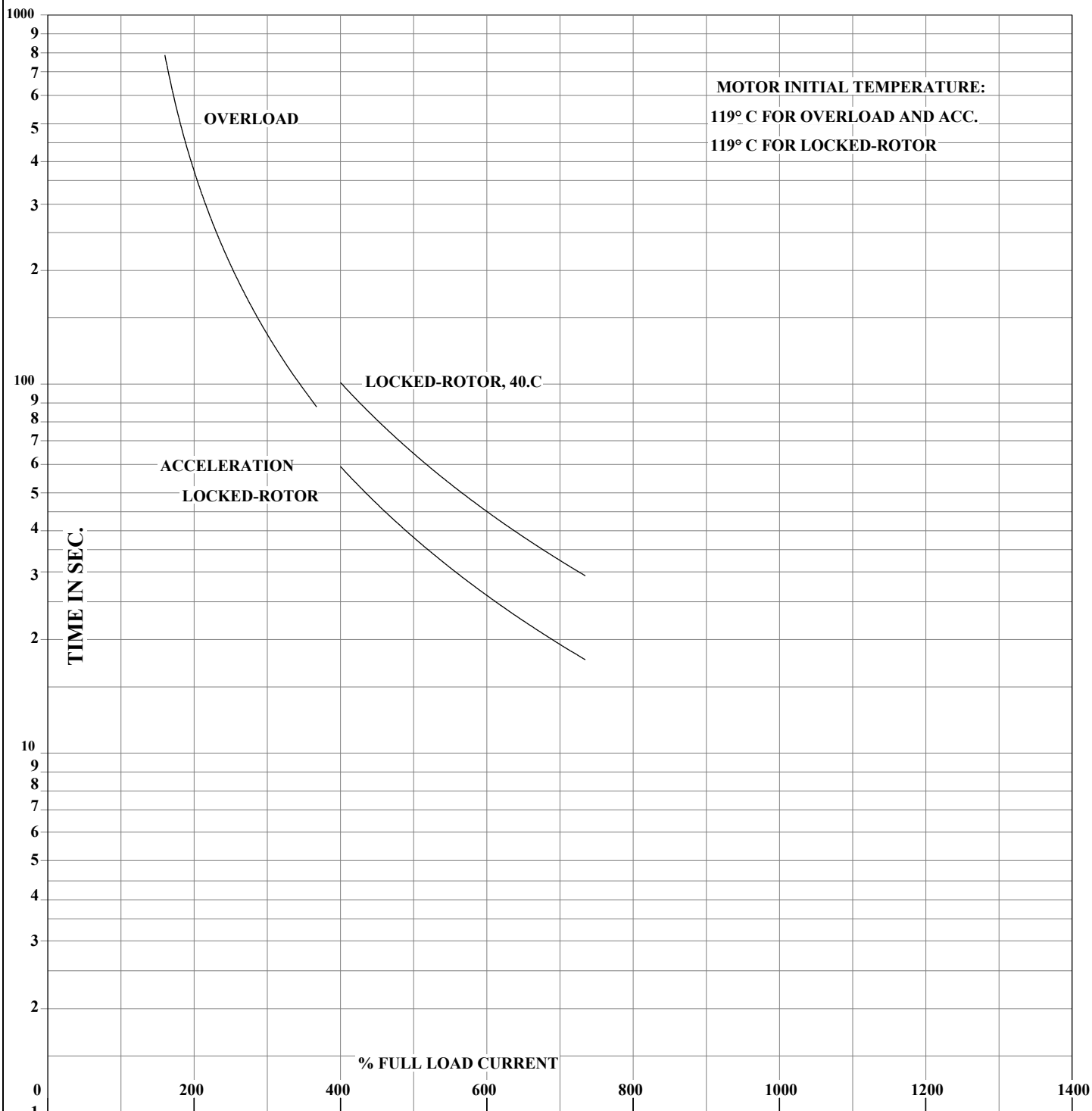
ENCLOSURE TEFC

STATOR RES. @ 25°C .159

AMB °C / INSUL 40/B

E/S 491284

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

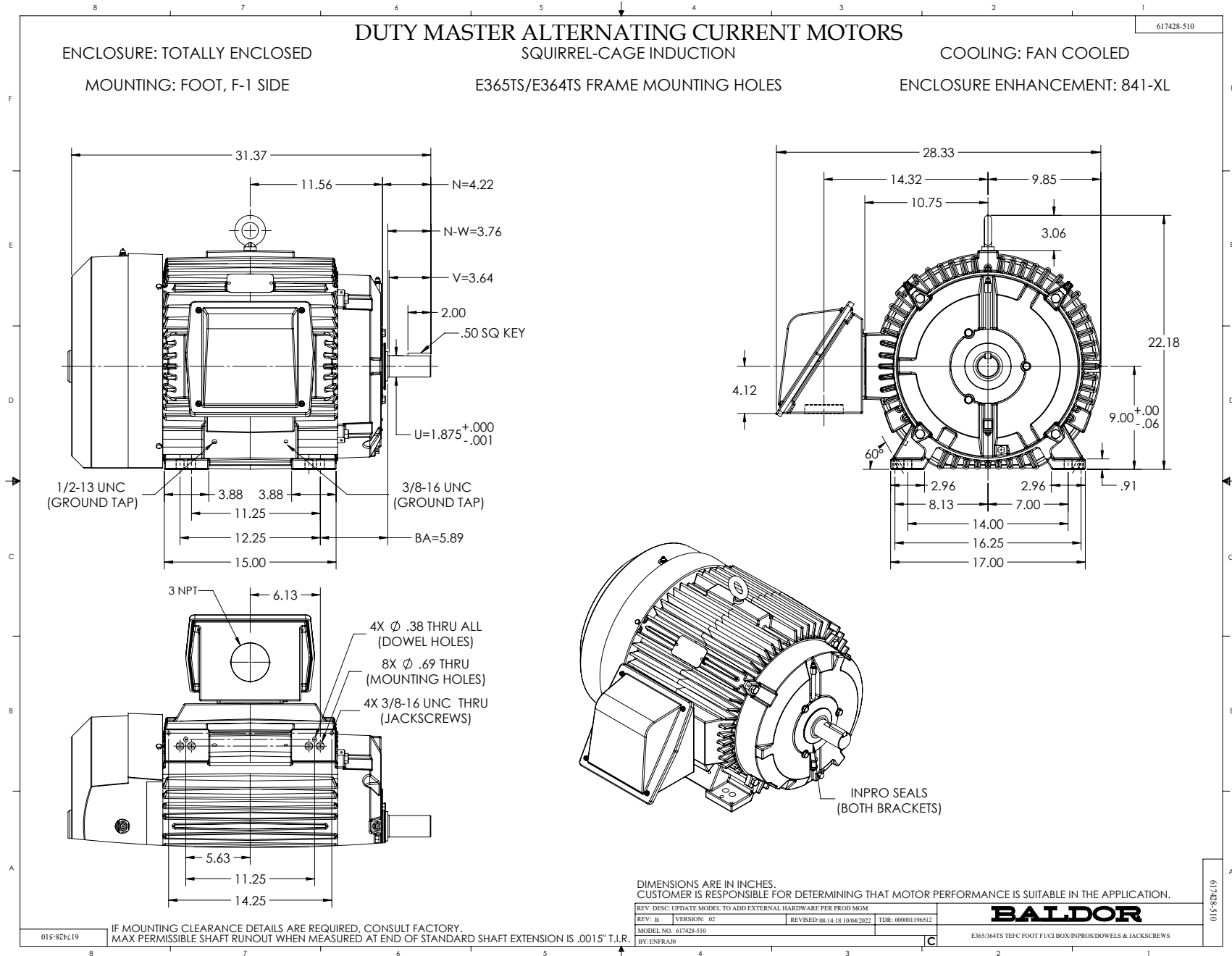


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AC MOTOR
PERFORMANCE
DATA

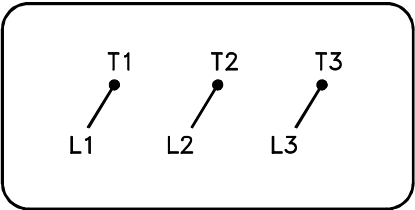
A36WG0456-R001

ISSUE DATE 09/26/18



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