

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	

Parts List

Part number	Description	Quantity
SA363358	SA A36-6000-0456	1.000 ea
RA352632	RA A36-6000-0456	1.000 ea
NP4388	SS SUPER E INVERTER DUTY IEEE 841 MAIN N	1.000 ea
NP4333	SS SUPER-E SD IEEE 841 CLI DIV2 UR CSA C	1.000 ea
000692000JP	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
000692000VH	N/P (RELEASE 1000 PCS)	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
034530032BB	P/NIP 1/4X4" SCHED 40	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
078559034A	+F/C A 078559001A - 360	1.000 ea
085922083BH	BRKT 360 085922072WCC KB	1.000 ea
410700004F	WSHR	1.000 ea
412118006A	DRAIN	1.000 ea
415028079E	INPRO SEAL,.625 WIDE,313 BRG	1.000 ea
415028079E	INPRO SEAL,.625 WIDE,313 BRG	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
423709011C	WASHER	3.000 ea
702674001C	FAN 360	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034530020BB	P/NIP 1/4X2-1/2 PLATED	1.000 ea
034530032AB	P/NIP 1/8X4 PLATED	1.000 ea

034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
085922083BH	BRKT 360 085922072WCC KB	1.000 ea
412118006A	DRAIN	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
423709011C	WASHER	3.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
067053000B	GASK 320-400	1.000 ea
076708000BB	CONDUIT BOX-360	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
415039016A	TERBD, 360-400	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
034180016GA	KEY 1/2X1/2X2 L	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.063 ga
482403003BEF	RUST VETO 342	0.013 ga
MG1500G03-5	LACQUER PRIMER, GRAY	0.063 ga
421948051	LABEL, MYLAR	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

ECP84310T-5 - 60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC						
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION FRAME	PACKET 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%						
ABB		DRAWN BY: J.J.HARRISON CHECKED BY: W.L.SMITH APPROVED BY: D. M. BYRD DATE: 01/27/03		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
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
10	0.0000
11	0.0000
12	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

ECP84310T-5 60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC

S.F. 1.15

NEMA DESIGN B

CODE LETTER G

ENCLOSURE TEFC

E/S 491284

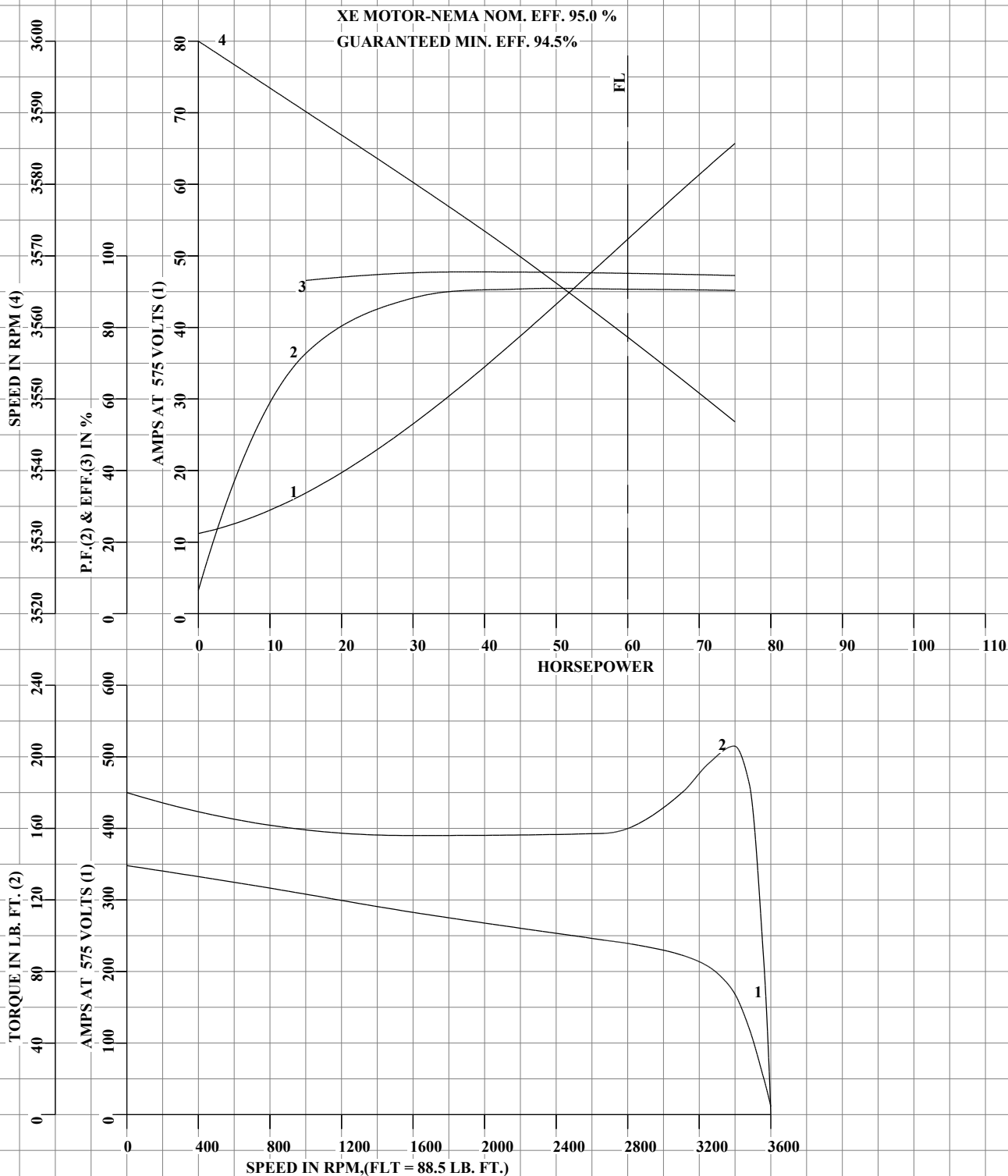
ROTOR 418141005XE

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.



DRAWN BY: J.J.HARRISON
CHECKED BY: W.L.SMITH
APPROVED BY: D. M. BYRD
DATE: 01/27/03

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

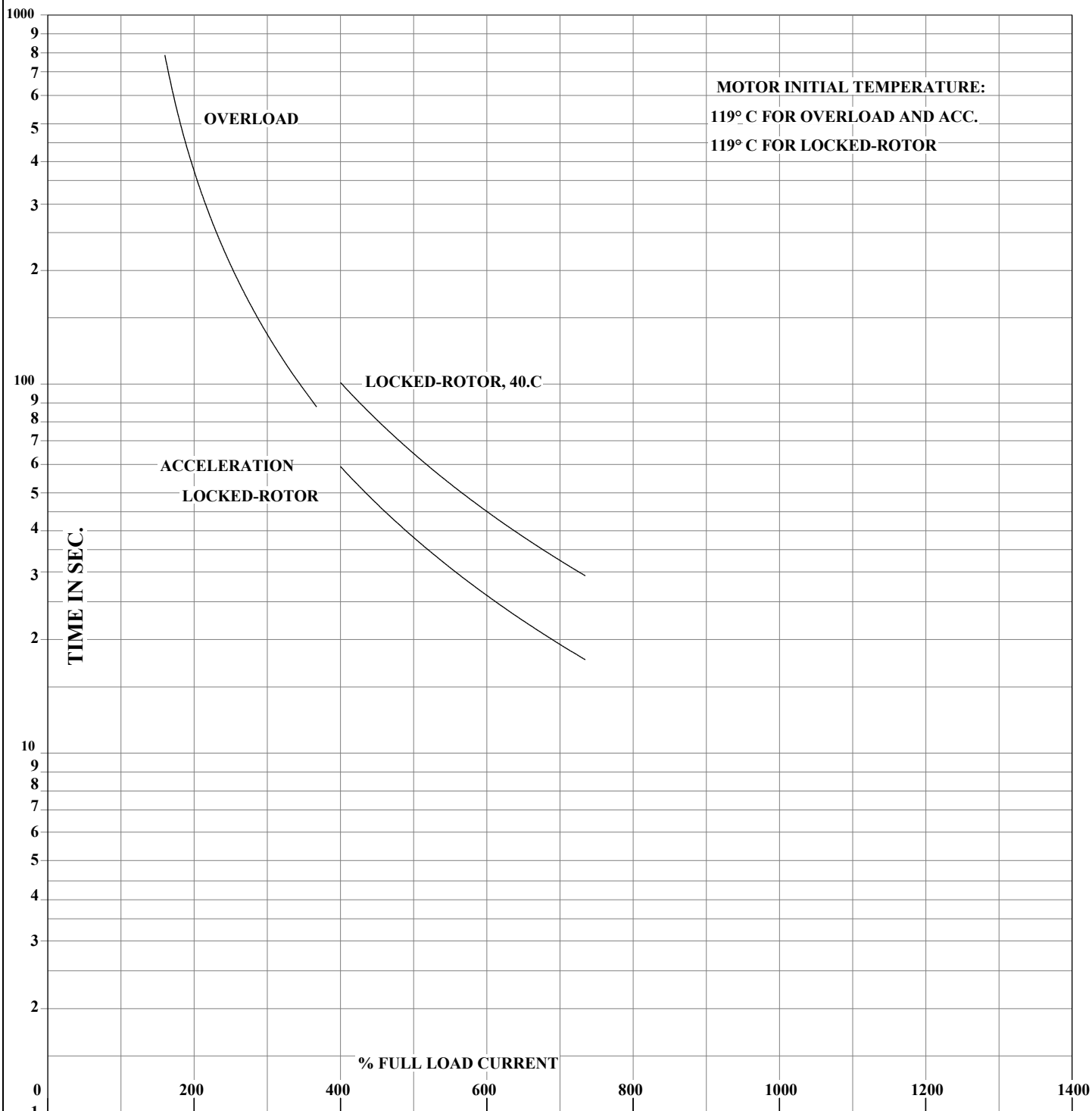
ENCLOSURE TEFC

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.

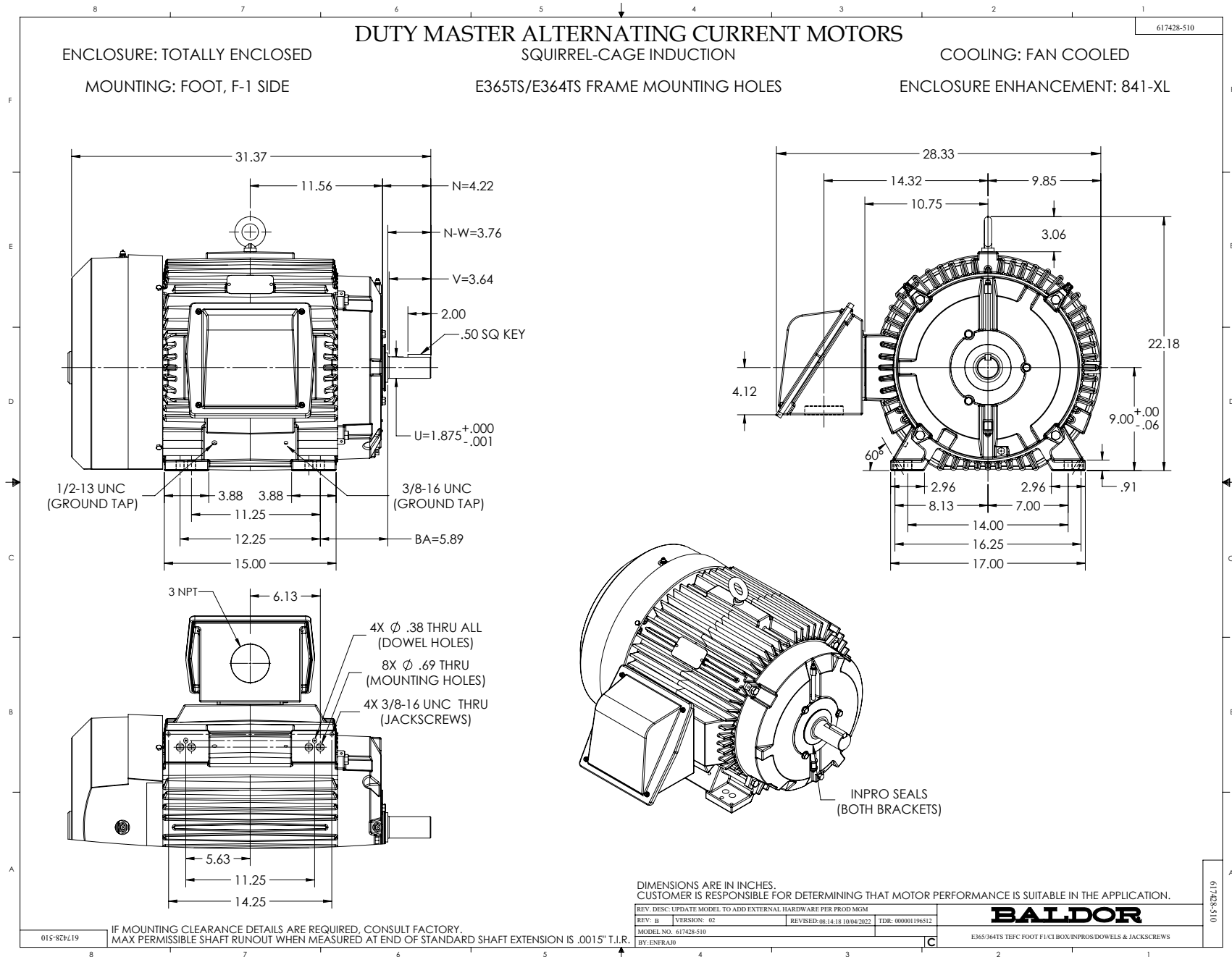


DRAWN BY: J.J.HARRISON
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APPROVED BY: D. M. BYRD
DATE: 01/27/03

AC MOTOR
PERFORMANCE
DATA

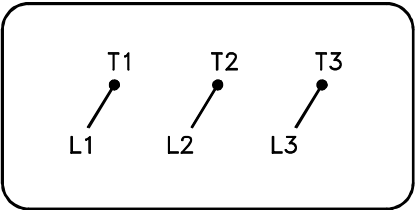
A36WG0456-R001

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