ABB BALDOR RELIANCE

Customer information packet

ECP84310T-5

60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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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**

S/O	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

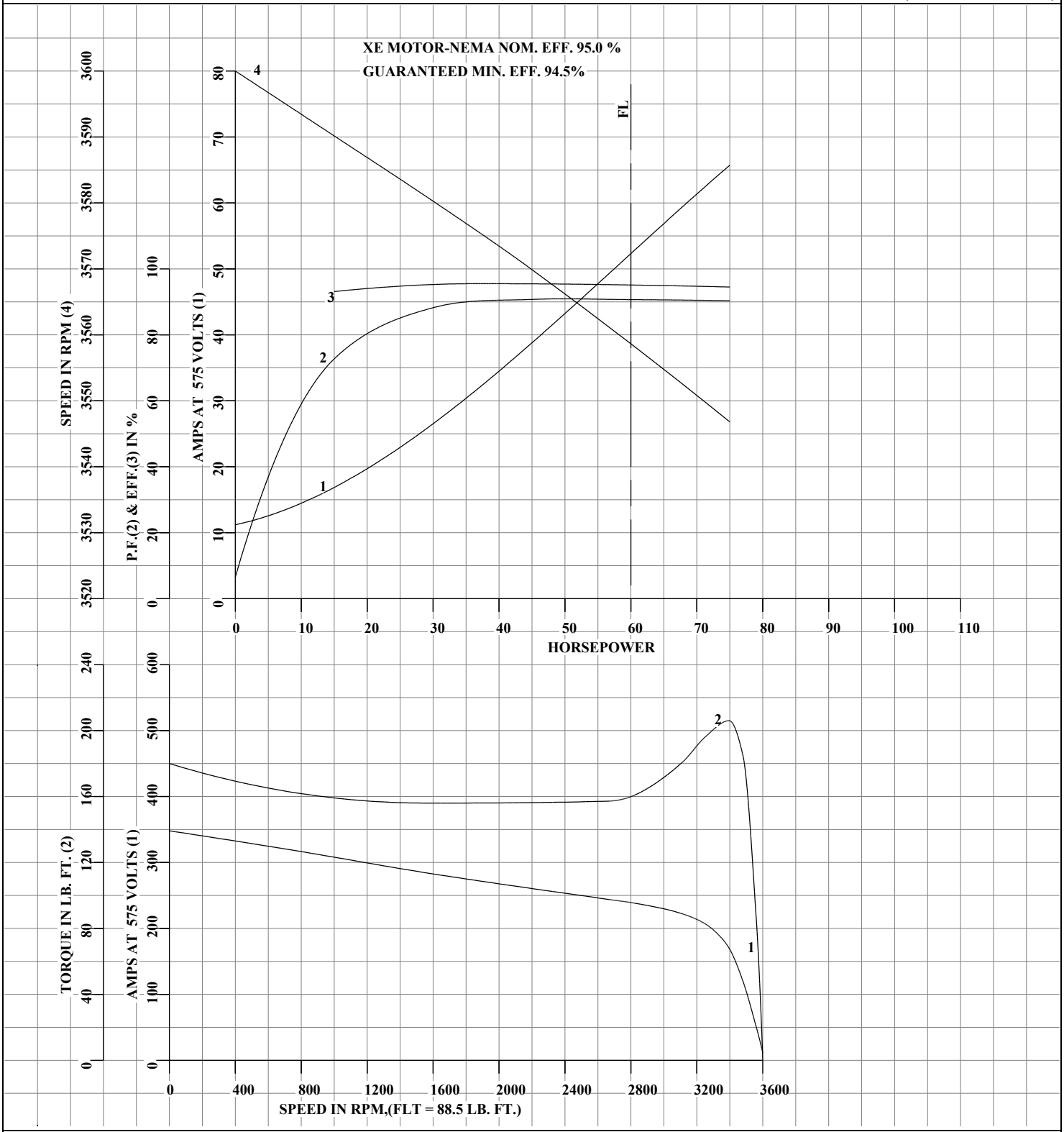
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	203	180	348
PULL UP	1565	176	156	284
BREAKDOWN	3397	233	206	170
FULL LOAD	3559	100	88.5	52.1

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%

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

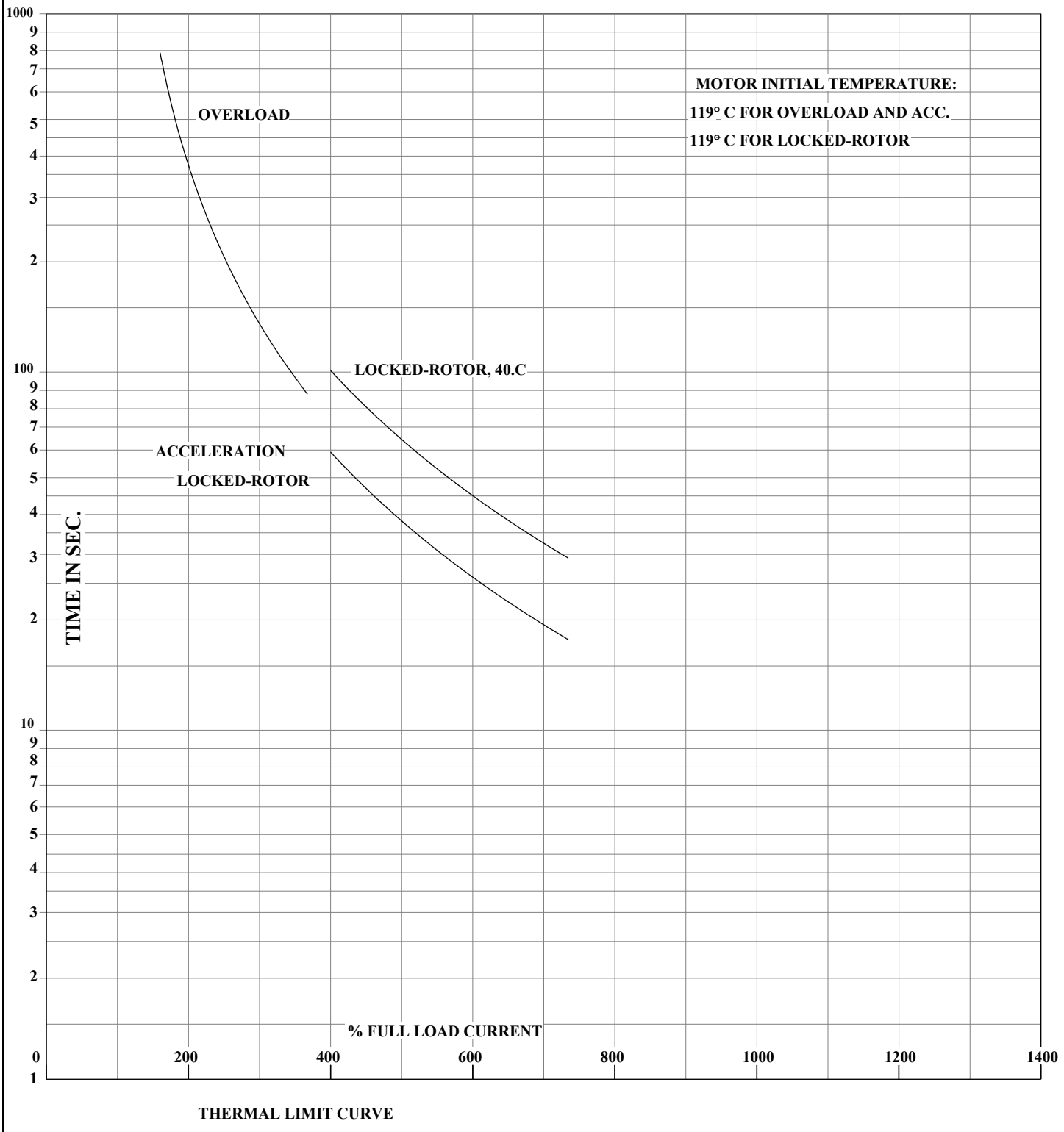
FRAME 364TS	RPM 3560	S.F. 1.15	ROTOR 418141005XE
HP 60	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 52	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .159
	AMB °C / INSUL 40/B	E/S 491284	OHMS (BETWEEN LINES)



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

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 ISSUE DATE 09/26/18

FRAME 364TS	RPM 3560	S.F. 1.15	ROTOR 41814H005XE
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.

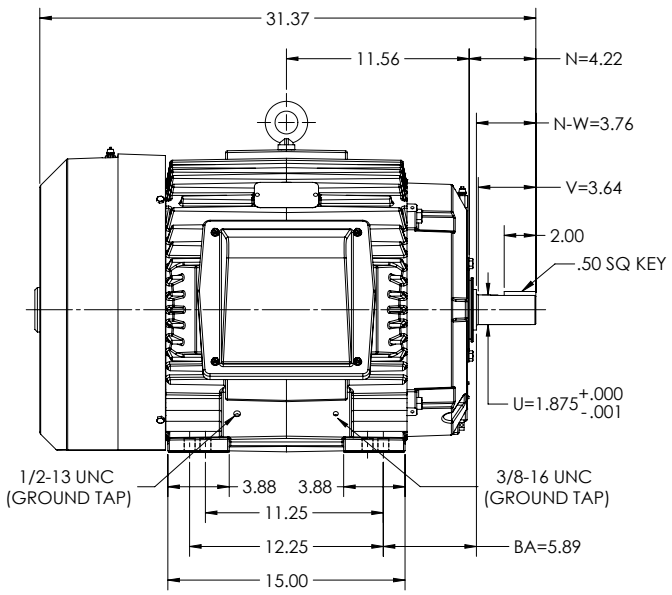
ABB	DRAWN BY: J.J.HARRISON CHECKED BY: W.L.SMITH APPROVED BY: D. M. BYRD DATE: 01/27/03	AC MOTOR PERFORMANCE DATA	A36WG0456-R001 ISSUE DATE 09/26/18

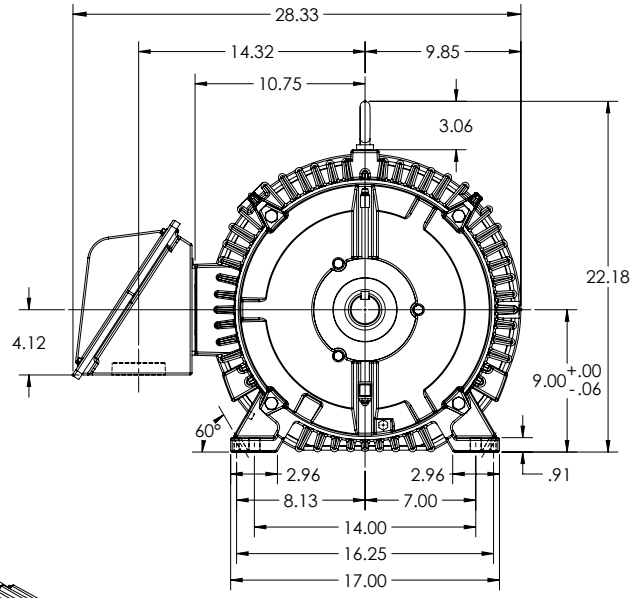
DUTY MASTER ALTERNATING CURRENT MOTORS

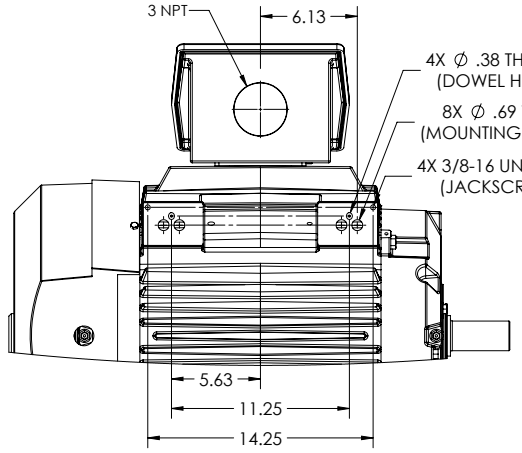
617428-510

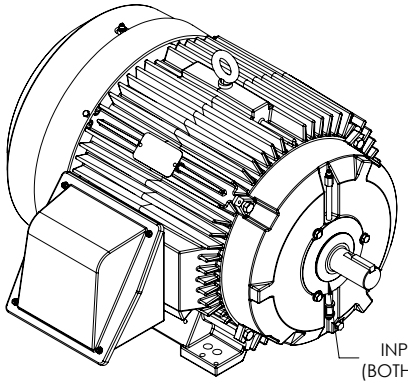
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 SIDE | E365TS/E364TS FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL









DIMENSIONS ARE IN INCHES.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .0015" T.I.R.

617428-510

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: B	VERSION: 02	REVISED: 08:14:18 10/04/2022	TDR: 000001196512
MODEL NO. 617428-510			
BY:ENFRAJ0			C

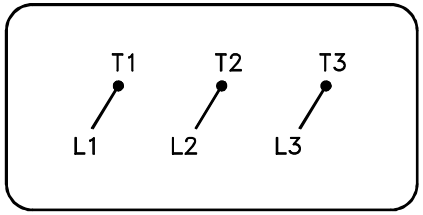
BALDOR

E365/364TS TEFC FOOT F1/CI BOX/INPROS/DOWELS & JACKSCREWS

617428-510

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			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1