

ABB BALDOR RELIANCE III

Customer information packet

EM4338T

30HP, 890RPM, 3PH, 60HZ, 364T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	39.300 A @ 460.0 V 78.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	39.3 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0431
Layout	617431-412
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	08
Leads	3#6,6#8
Proprietary	False
Created date	01-13-2015

Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36050M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	33.44 IN
Power Factor	77
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP2349L													
SPEC NO.	A36-6049-0999			CAT.NO.		EM4338T				FRAME	364T		
HP	30	VOLTS		230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	890	AMPS		78.6/39.3		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03J30X			DUTY	CONT	INSUL.CLASS			F				
OPP D.E. BEARING	65BC03J30X			ENCL	TEFC	CODE	G						
SER.NO.				POWER FACTOR		77	NEMA-NOM-EFFICIENCY				92.4		
						MAX CORR KVAR			10	GUARANTEED EFFICIENCY		91	
						NEMA NOM/CSA QUOTED EFF							
											MOTOR WEIGHT		

ABB BALDOR RELIANCE III S/O							CUSTOMER INFORMATION PACKET							EM4338T - 30HP, 890RPM, 3PH, 60HZ, 364T, TEFC, F1						
			FRAME		HP		TYPE		PHASE/ HERTZ		RPM		VOLTS							
			364T		30		P		3/60		890		230/460							
AMPS			DUTY		AMB °C/ INSUL		S.F.		NEMA DESIGN		CODE LETTER		ENCLOSURE							
78.6/39.3			CONT		40/B		1.15		B		G		TEFC							
E/S		ROTOR		TEST S.O.		TEST DATE		STATOR RES. @25 °C OHMS (BETWEEN LINES)												
591745		418141-73-AE		---		---		.0676/.270												
PERFORMANCE																				
LOAD		HP		AMPERES		RPM		% POWER FACTOR			% EFFICIENCY									
NO LOAD		0		19.7		900		4.34			0									
1/4		7.52		21.5		897		37.2			88.3									
2/4		15.0		25.8		894		59.1			92.3									
3/4		22.5		32.0		891		70.7			92.9									
4/4		30.0		39.3		888		77.0			92.7									
5/4		37.5		47.8		884		80.0			91.9									
SPEED TORQUE																				
				RPM		TORQUE % FULL LOAD		TORQUE LB.-FT.			AMPERES									
LOCKED ROTOR				0		138		244			210									
PULL UP				213		130		231			198									
BREAKDOWN				841		229		406			119									
FULL LOAD				888		100		177			39.3									
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 93.0 PCT. GUARANTEED MIN. EFF. 92.4 PCT.																				
				DRAWN BY: <u>P.B. GREENE</u> CHECKED BY: <u>K.W. KANOUFF</u> APPROVED BY: <u>E.J. CHRISTIAN</u> DATE: <u>06/04/93</u>				AC MOTOR PERFORMANCE DATA			A36WG0431-R001 DATE ISSUED 08/28/18									

FRAME 364T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. ---

HP 30

AMPS 78.6/39.3

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

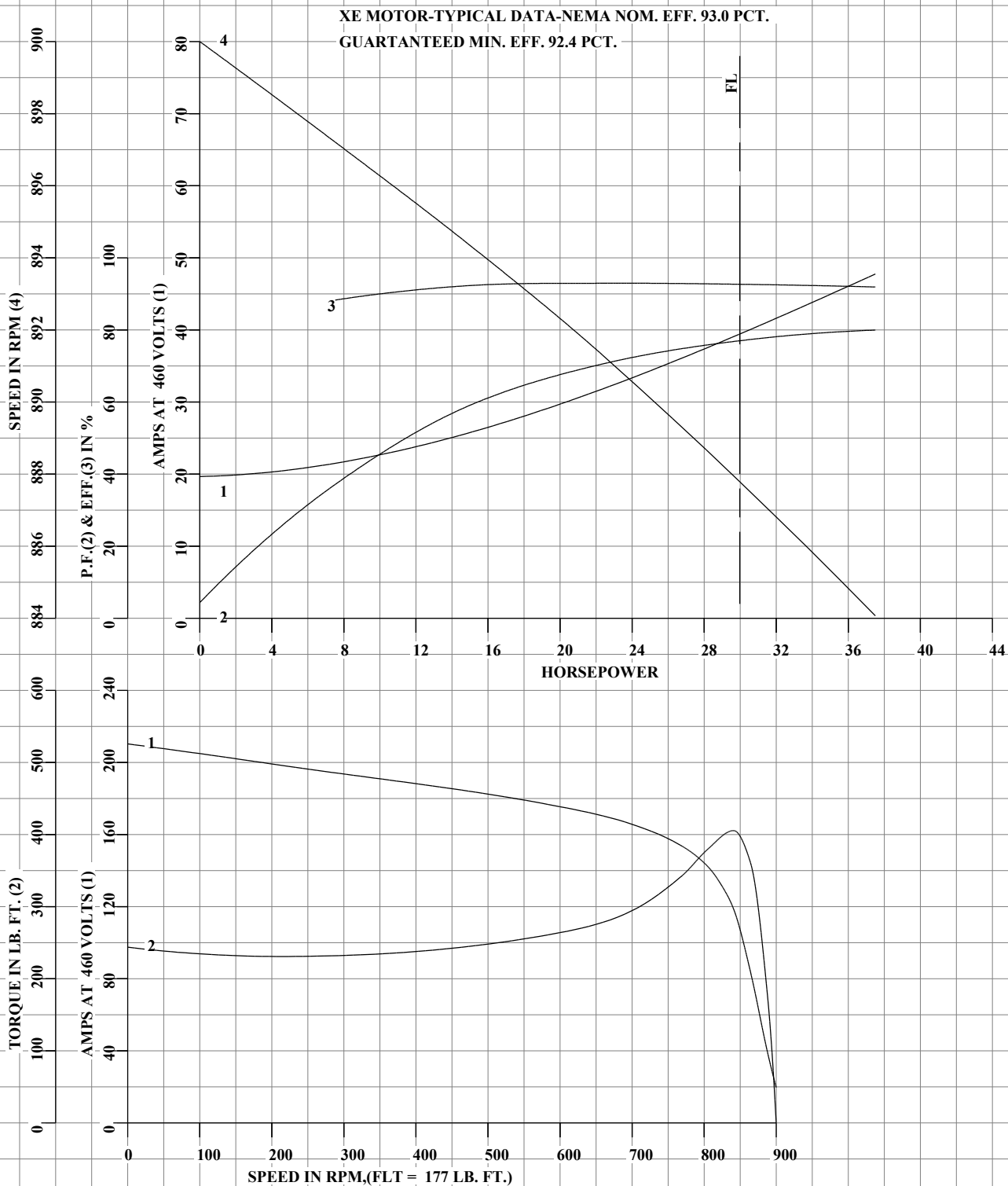
STATOR RES. @ 25°C .0676/.270

PHASE / HERTZ 3/60

AMB °C / INSUL 40/B

E/S 591745

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

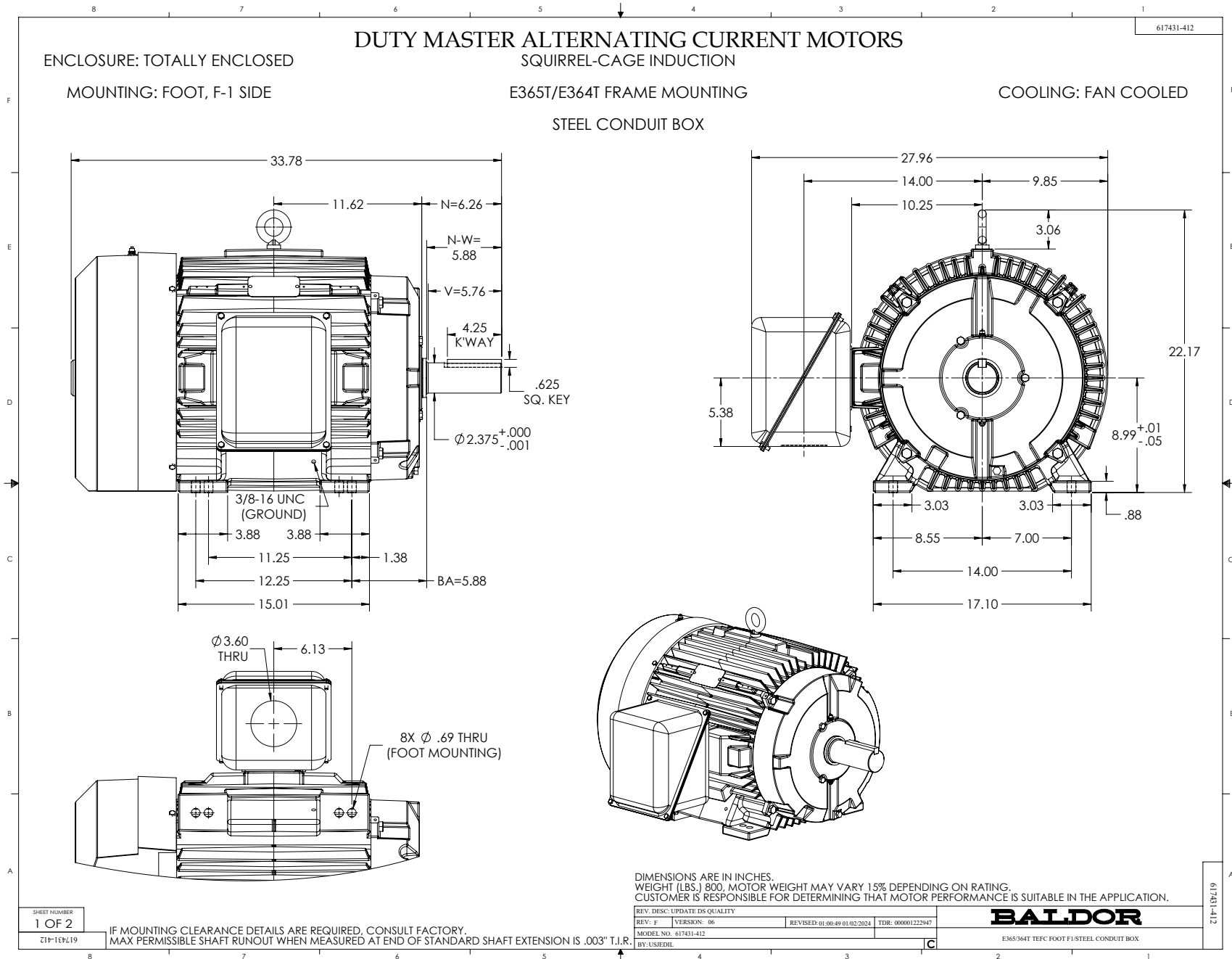


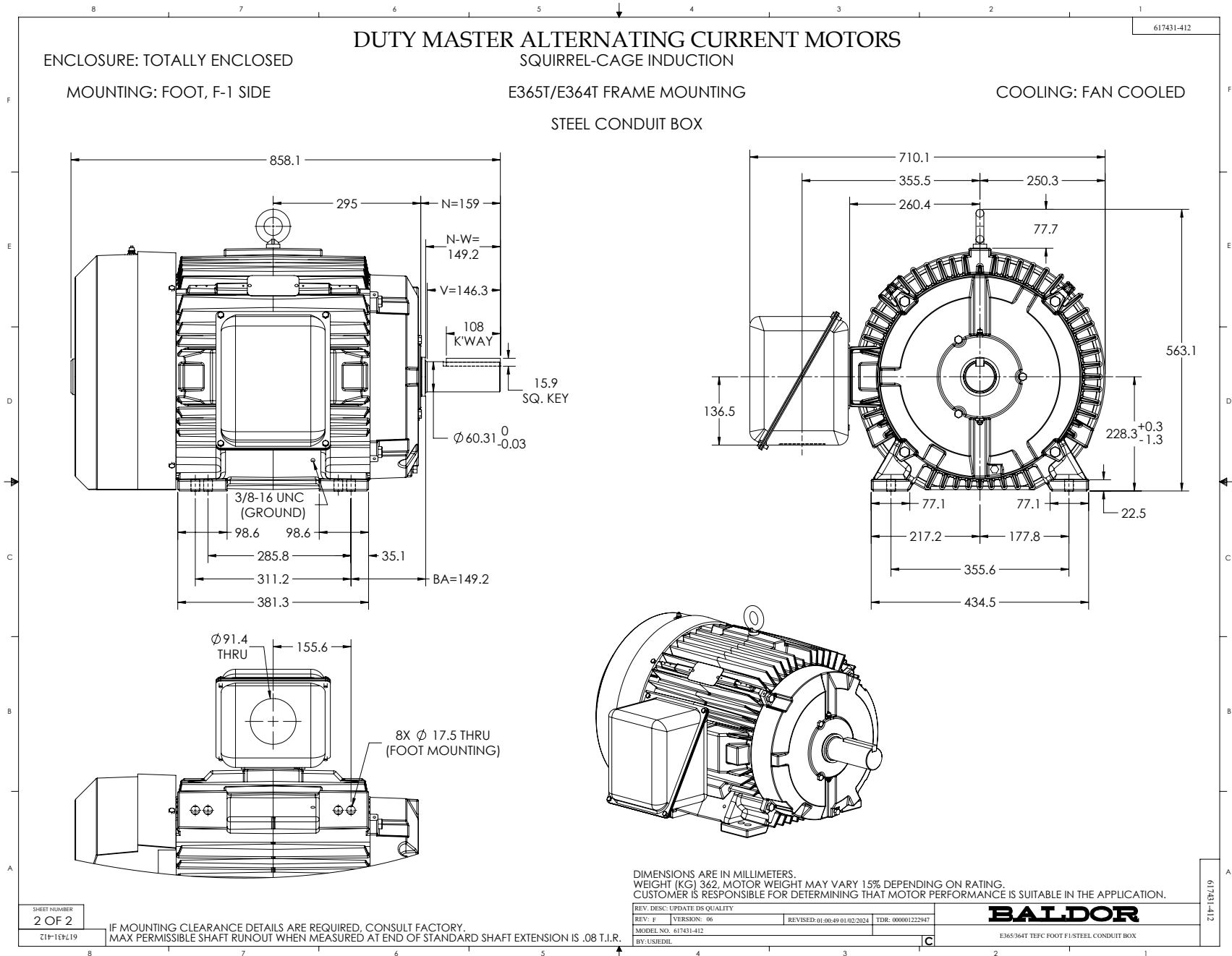
DRAWN BY: P.B. GREENE
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APPROVED BY: E.J. CHRISTIAN
DATE: 06/04/93

AC MOTOR
PERFORMANCE
DATA

A36WG0431-R001

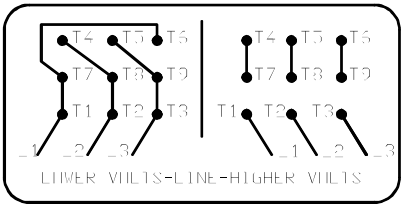
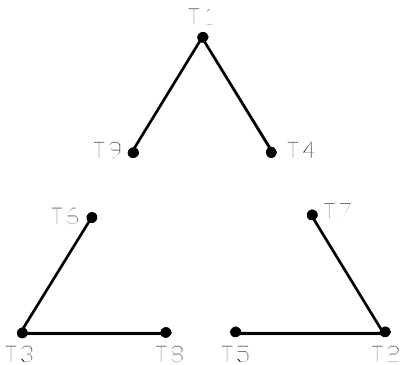
ISSUE DATE 08/28/18





416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
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