



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	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
Motor Lead Quantity/Wire Size	3 @ 6 AWG

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 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

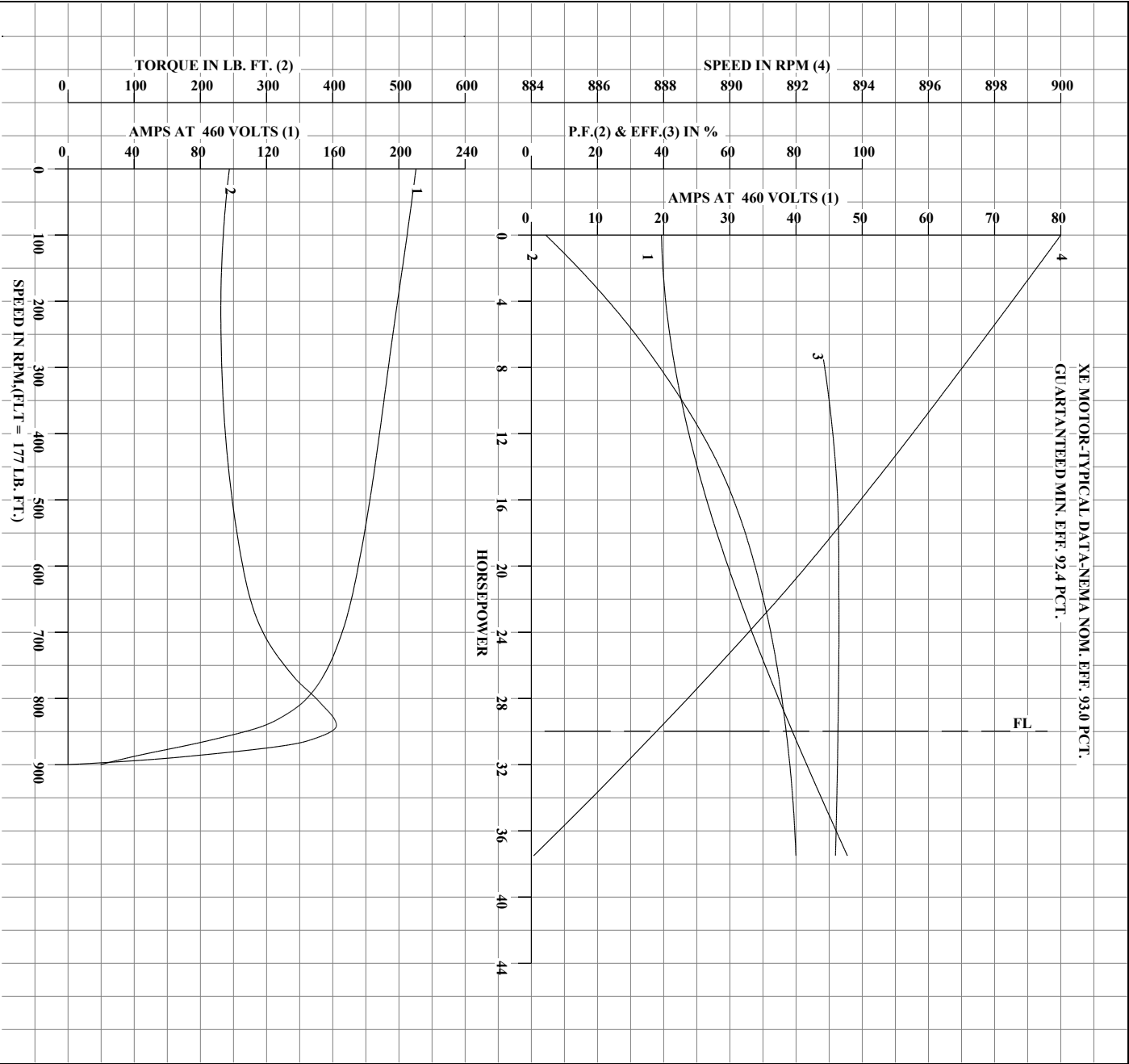
SPEC NO.	A36-6049-0999			CAT.NO.	EM4338T					FRAME	364T	
HP	30	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	890	AMPS	78.6/39.3		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03J30X			DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	65BC03J30X			ENCL	TEFC	CODE	G					
SER.NO.				POWER FACTOR		77	NEMA-NOM-EFFICIENCY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

S/O	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.						
ABB		DRAWN BY: P.B. GREENE CHECKED BY: K.W. KANOUE APPROVED BY: E.J. CHRISTIAN DATE: 06/04/93		AC MOTOR PERFORMANCE DATA	A36WG0431-R001 DATE ISSUED 08/28/18	

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REL.S.O.	FRAME 364T	RPM 890	S.F. 1.15	ROTOR 418141-73-AE
HP 30	VOLTS 230/460	NEMA DESIGN B	TEST S.O. ---	
TYPE P	AMPS 78.6/39.3	CODE LETTER G	TEST DATE ---	
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0676/270	
	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.



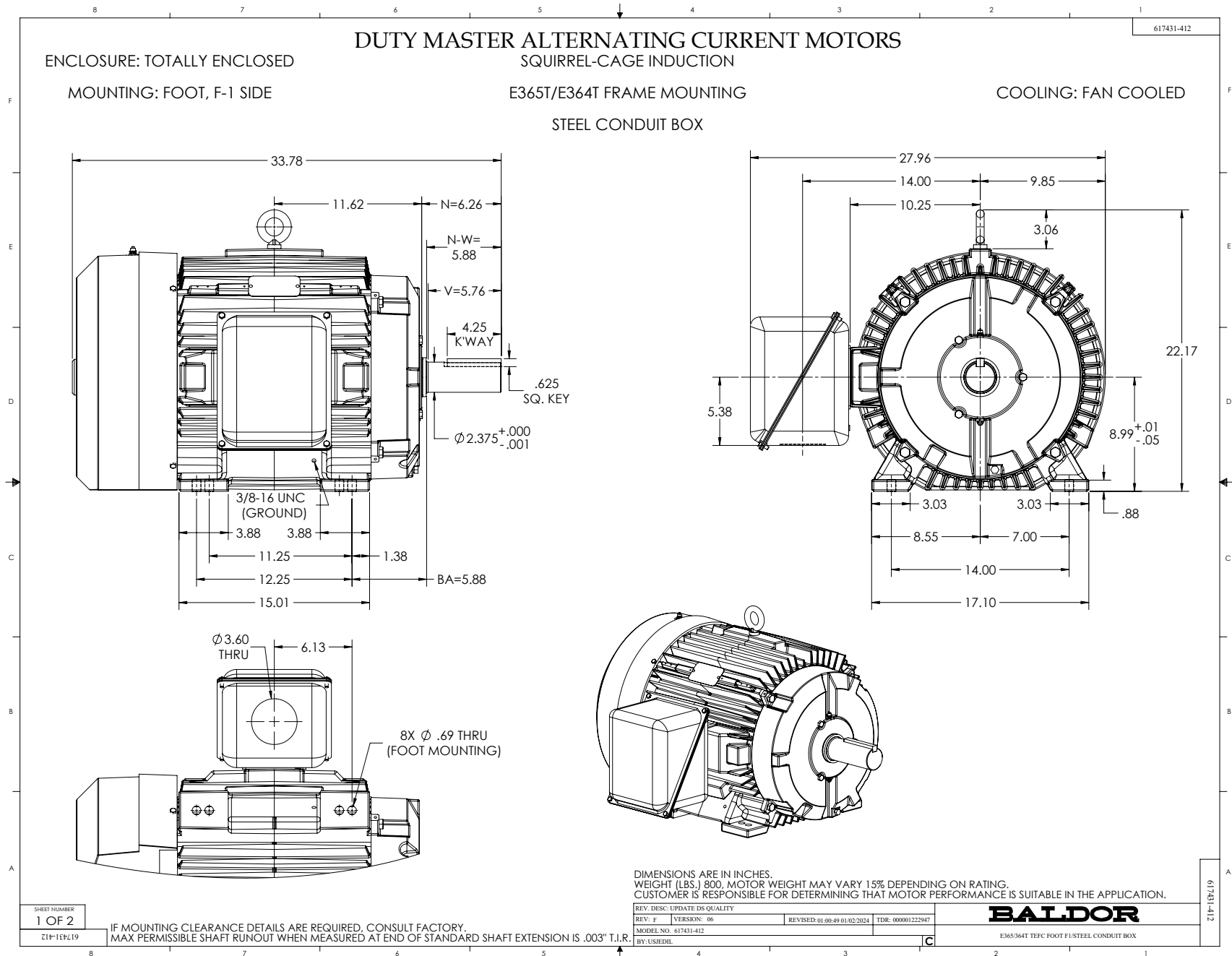
DRAWN BY: P.B. GREENE
CHECKED BY: K.W. KANDOFF
APPROVED BY: E.J. CHRISTIAN
DATE: 06/04/93

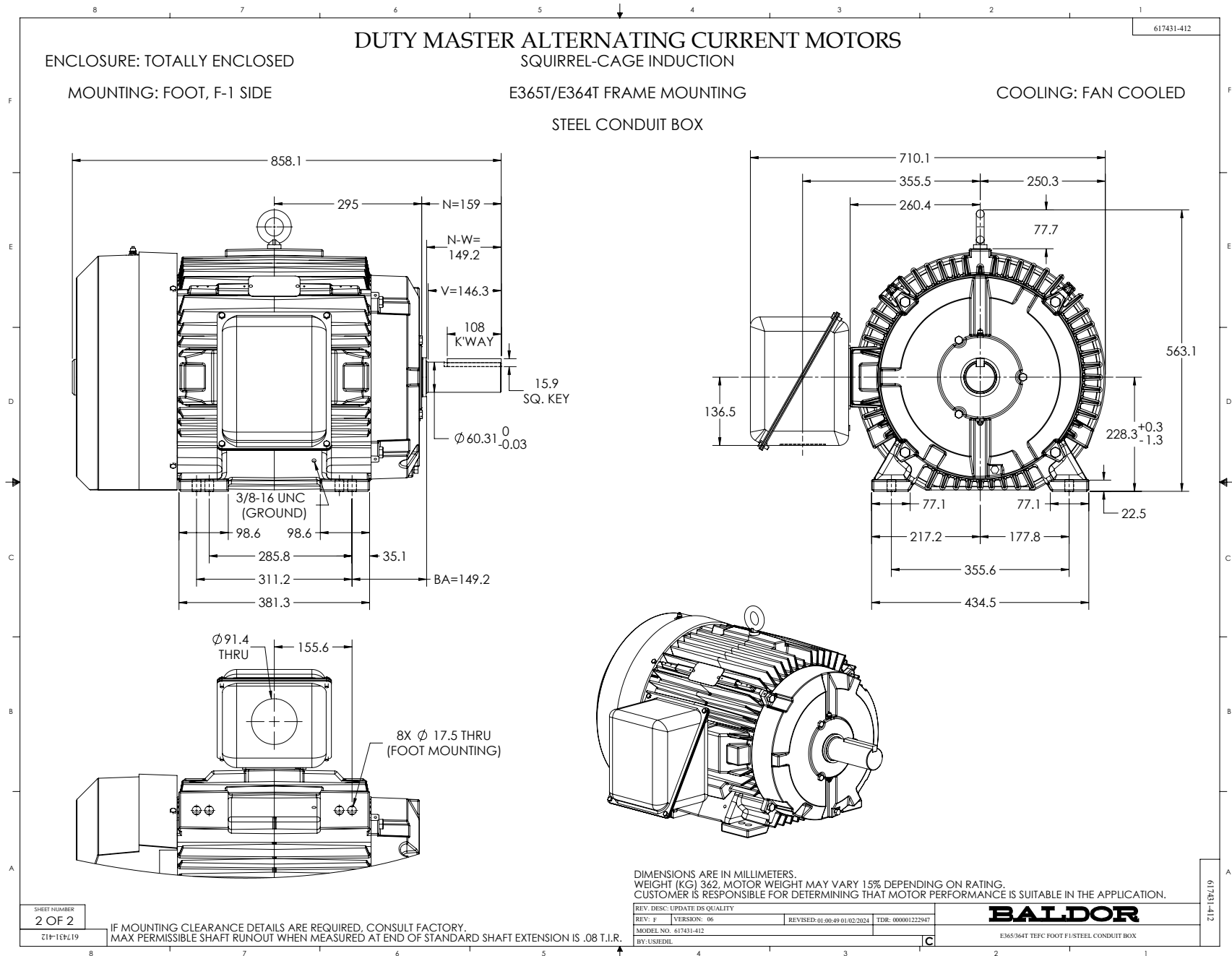
AC MOTOR
PERFORMANCE
DATA

A36WG0431-R001
ISSUE DATE 08/28/18

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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
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BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
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