

ABB BALDOR RELIANCE III

Customer information packet

ECP84312T-4

50HP, 1185RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	365T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	62.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	62.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4275
Layout	617428-603
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	05-30-2023

Lifting Lugs	No Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3668M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.49 IN
Power Factor	81
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	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4388																	
CAT #	ECP84312T-4						FR	365T			IP56						
SPEC	A36-9121-4275						ENCL	TEFC			DES	B					
HZ	60	PH	3	CL	F	HP	50	SF	1.15	PF	81	%	CODE	G			
VOLTS	460					AMPS	62										
RPM	1185		MAX RPM			1800	SER										
NEMA NOM. EFF	94.1	%	RATING				40C AMB-CONT										
GUAR MIN. EFF	93	%	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	6-60		VT HZ			0-60											
CHP HZ	60-90		INV TEMP CL					200	C								
	SFA 71						MTR WT			973	LBS						

NP4333									
CAT #		ECP84312T-4			ROTOR BARS		55		
SPEC		A36-9121-4275			STATOR SLOTS		72		
SER					MAX CORR KVAR		15.8		
GREASE		POLYREX EM							
ABMA DE BRG		65BC03J30X		ODE		65BC03J30X			
		SFA 71							
SPACE HEATER LEADS H1-H2:		TIE LIKE NUMBERS				TOGETHER			
MAX. SPACE HEATER TEMP.		C		V		A		W	

ECP84312T-4 - 50HP, 1185RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F						
CUSTOMER INFORMATION PACKET	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365T	50	P	3/60	1185	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
62.0	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418141089AE	---	---	.111		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	24.0	1200	5.62	0	
1/4	12.5	28.5	1197	46.2	89.0	
2/4	25.0	37.2	1194	67.5	93.1	
3/4	37.5	48.7	1191	76.6	94.1	
4/4	50.0	62.0	1188	80.3	94.1	
5/4	62.5	76.5	1184	81.7	93.7	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	174	385	387		
PULL UP	650	150	333	337		
BREAKDOWN	1135	258	570	213		
FULL LOAD	1188	100	221	62.0		
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 94.1 PCT.						
		DRAWN BY: <u>C.B. ATANGANE</u> CHECKED BY: <u>W.L. SMITH</u> APPROVED BY: <u>C.E. JAMISON</u> DATE: <u>04/15/25</u>		AC MOTOR PERFORMANCE DATA		A36WG4275-R001
		DATE ISSUED 04/05/25				

FRAME 365T

HP 50

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
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98	0.0000
99	0.0000
100	0.0000

PHASE / HERTZ 3/60

CUSTOMER INFORMATION PACKET

R INFORMATIC

VOLTS 460

AMPS 62.0

DUTY CONT

AMB °C / INSUL 40/F

ECP84312T-4 135HP, 1185RPM, 3PH, 60HZ, 365T, A2668M, T5FG, F

4312T-4 1 5QH

NEMA DESIGN B

CODE LETTER G

ENCLOSURE TEFC

E/S -

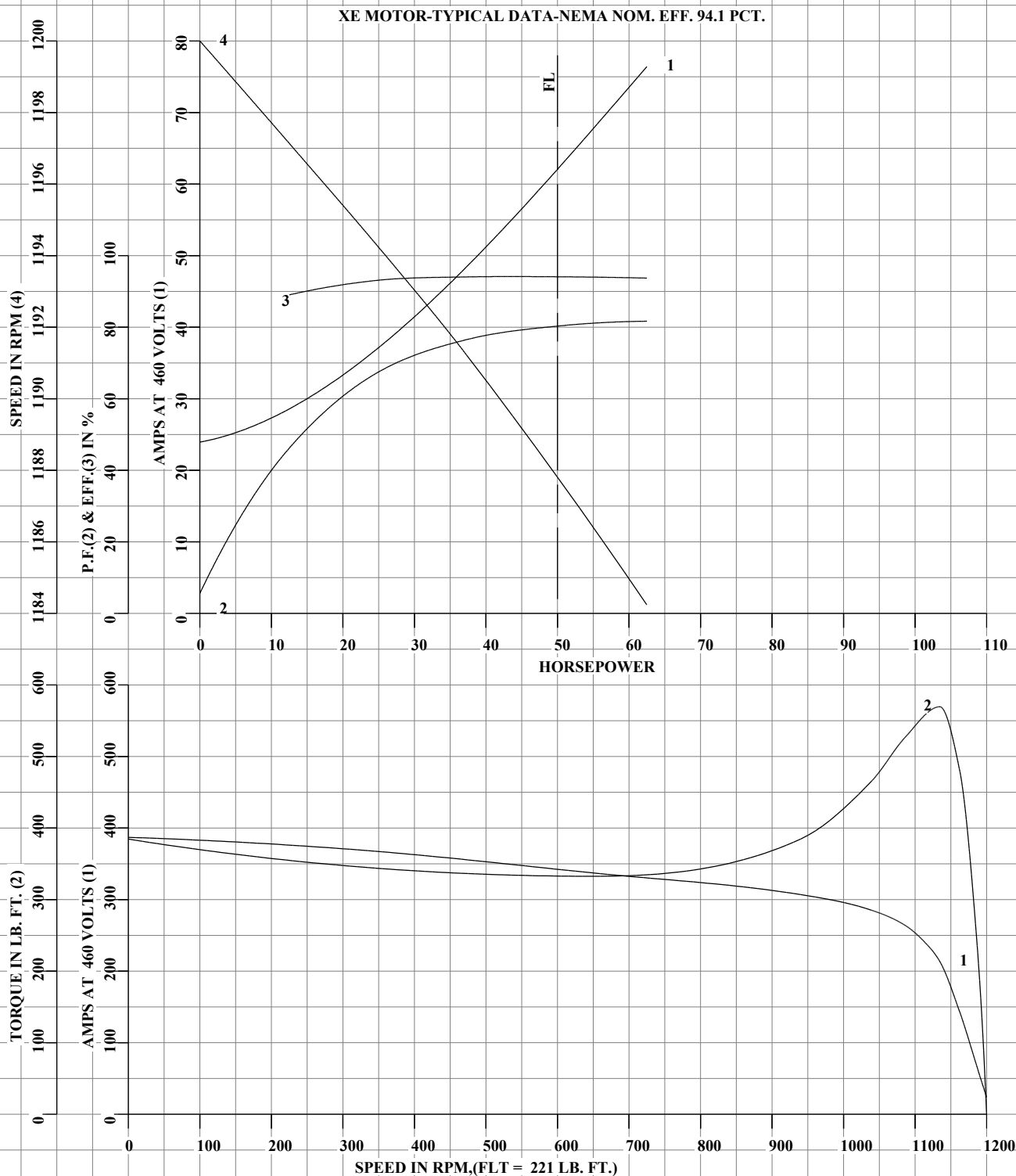
01H7.365T A3668M TEEG

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25°C .111

OHMS (BETWEEN LINES)



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

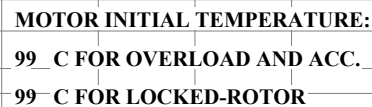


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AC MOTOR PERFORMANCE DATA

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THERMAL LIMIT CURVE
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 94.1 PCT.

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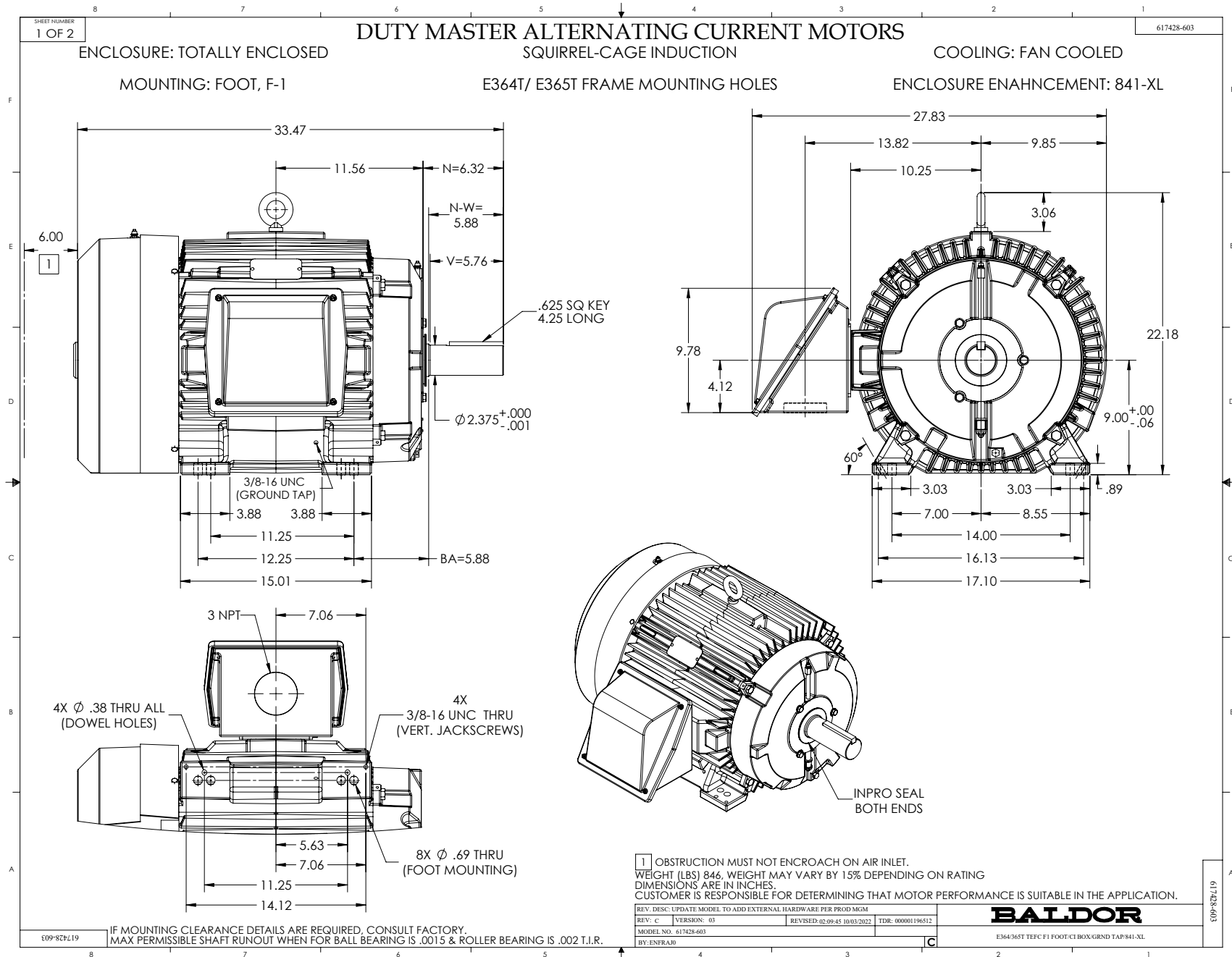


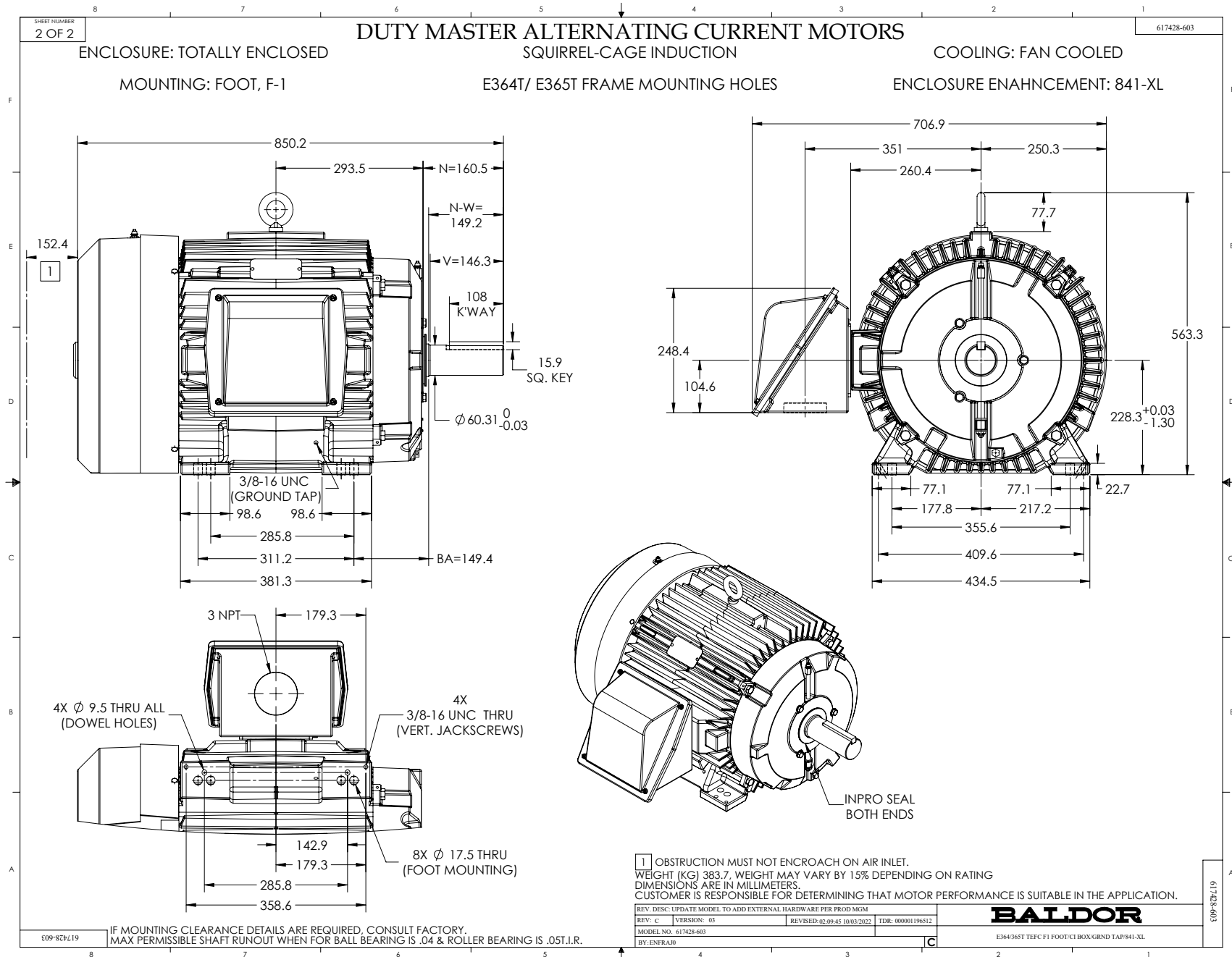
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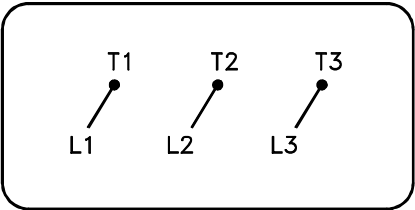
ISSUE DATE 04/05/25





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