



Customer information packet

ECP84312T-5

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	CL I 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	575.0 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	48.000 A @ 575.0 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	48.0 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.	A36WG4276
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	Standard Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	None
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-5						FR	365T			IP56					
SPEC	A36-9123-4276						ENCL	TEFC			DES	B				
HZ	60	PH	3	CL	F	HP	50	SF	1.15	PF	81	%	CODE	G		
VOLTS	575					AMPS	48									
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 55						MTR WT			973	LBS					

NP4333									
	CAT #	ECP84312T-5			ROTOR BARS		55		
	SPEC	A36-9123-4276			STATOR SLOTS		72		
	SER				MAX CORR KVAR		12.7		
	GREASE	POLYREX EM							
	ABMA DE BRG	65BC03J30X		ODE	65BC03J30X				
		SFA 55							
SPACE HEATER LEADS H1-H2:		TIE LIKE NUMBERS			TOGETHER				
MAX. SPACE HEATER TEMP.		C	V		A		W		

AC induction motor performance data

Record #95960 - Typical performance - not guaranteed values

Winding	A36WG4276
Type	A3668M
Enclosure	TEFC

Nameplate data

Rated Output	50
Volts	575
Full Load Amps	48
R.P.M.	1185
Hz	60
Phase	3
KVA Code	G
S.F.	1.15
NEMA Nom. Eff.	94.1
Power Factor	81
Duty	CONT
S.F. Amps	

575 V. 60 Hz:

Single Voltage Motor

Full Load Torque	223 LB-FT
Start Configuration	direct on line
Breakdown Torque	531 LB-FT
Pull-up Torque	314 LB-FT
Locked-rotor Torque	387 LB-FT
Starting Current	286 A
No-load Current	16.64
Line-line Res. @ 25°C	0.168 Ω
Temp. Rise @ Rated Load	62°C
Temp. Rise @ S.F. Load	71°C
Locked-rotor Power Factor	27.8
Rotor inertia	22 lb-ft ²

Load Characteristics 575 V, 60 Hz, 50 HP

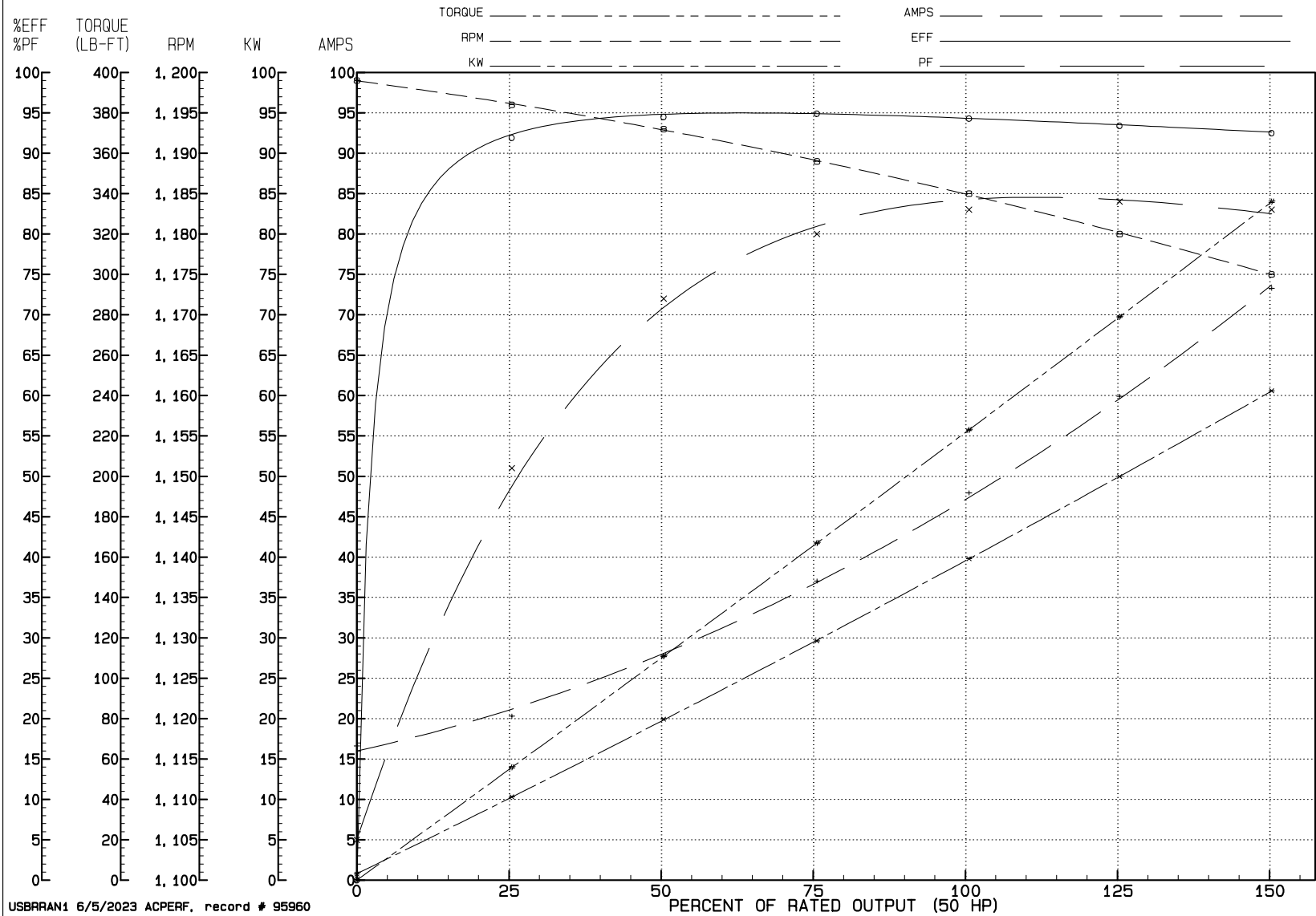
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	51	72	80	83	84	83	84
Efficiency	0	91.9	94.5	94.9	94.3	93.4	92.5	93.8
Speed	1199	1196	1193	1189	1185	1180	1175	1182
Line amperes	16.64	20.33	27.71	37.04	47.95	59.9	73.28	55.1

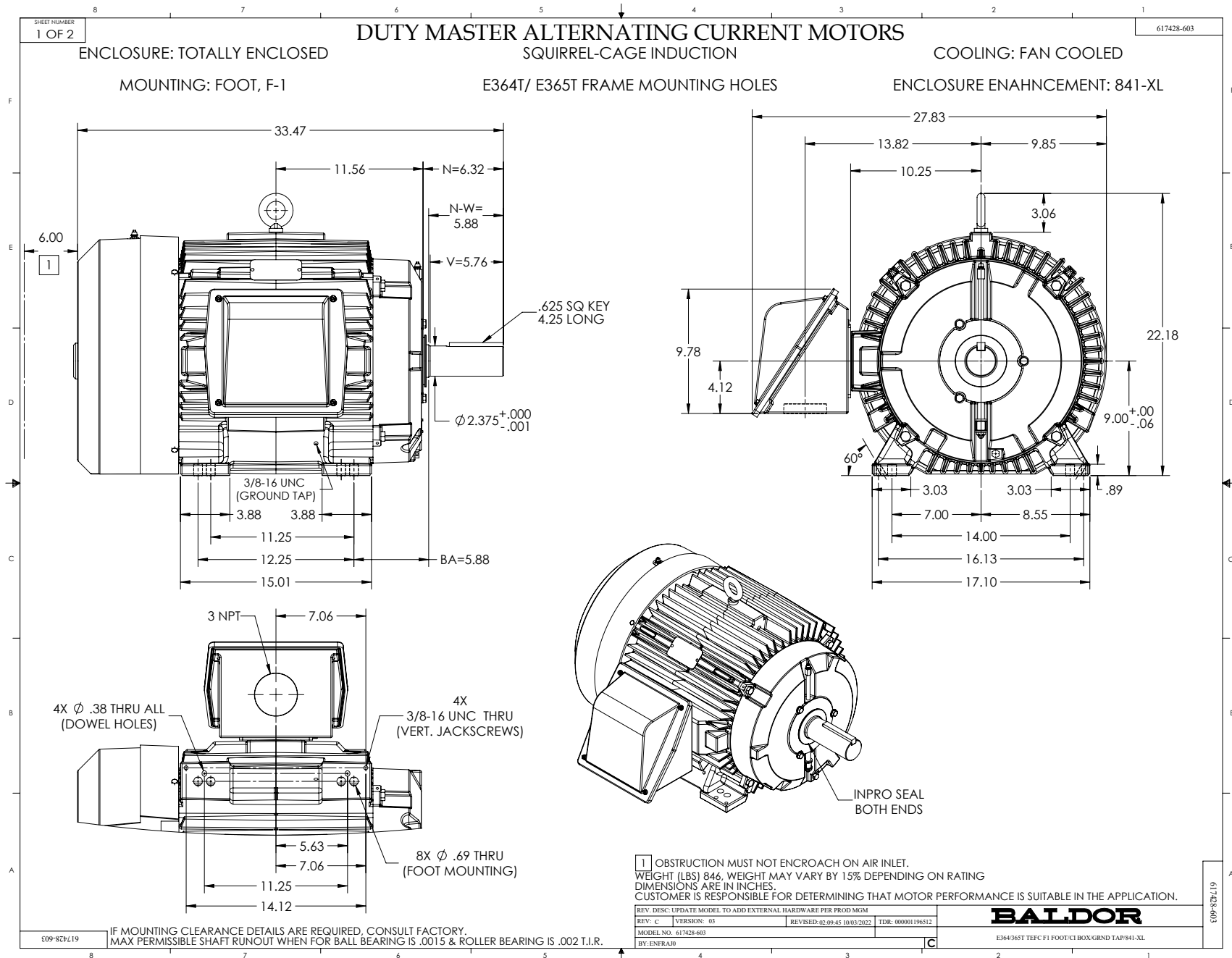
REVIEW

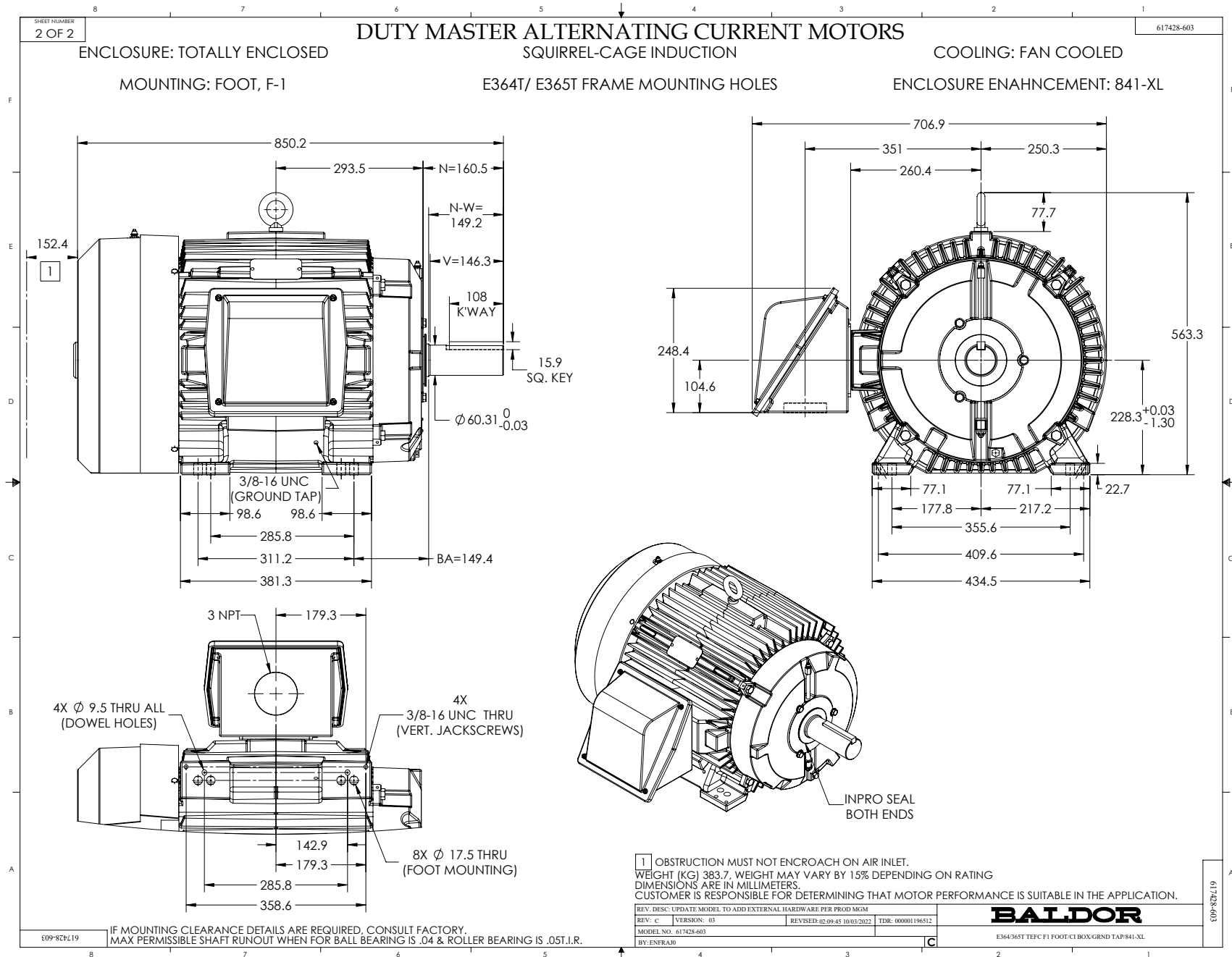
WINDING # A36WG4276

50 HP 3 PH 60 HZ 1185 RPM 575 V A3668M

TORQUES (LB-FT): P0=531.00 PU=314.00 LR=387.00 LRA=286.00

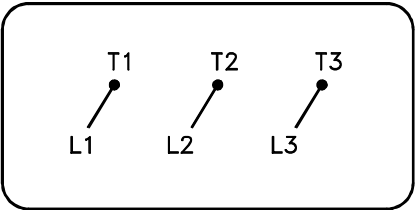






416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR CONN DIAG - STANDARD 3 LEAD SH 1 of 1
REV. LTR: -	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010	
MTL: -		BY: RAGRA	