



Customer information packet

ECTM4316T-G

75HP, 1780RPM, 3PH, 60HZ, 364T, A36070M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	174.000 A @ 230.0 V 189.000 A @ 208.0 V 87.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	87.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG

Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4148
Layout	617438-196
Eff. date	06-13-2023
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	04-12-2022

Motor Standards	NEMA
Motor Type	A36070M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.78 IN
Power Factor	86
Product Family	Cooling Tower
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW

CAT.NO.	ECTM4316T-G		SPEC NO.	A36-0008-4148					
HP	75HP	AMPS	174/87	VOLTS	230/460	DESIGN	B		
FRAME	364T	RPM	1780	HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	65BC03JGG30A		PH	3	DUTY	CONT	INSUL.CLASS	F	
OPP D.E. BEARING	65BC03JGG30A		TYPE	P	ENCL	TEFC	CODE	G	
D.E.BRG.DATA	6313		POWER FACTOR	86		NEMA NOM EFFICIENCY	95.4		
O.D.E.BRG.DATA	6313		MAX CORR KVAR	16.00		GUARANTEED EFFICIENCY	94.5		
3/4 LOAD EFF.	95.4		NEMA NOM/CSA QUOTED EFF						
SER.NO.			MOTOR WEIGHT						

000901002AAA

INV DUTY 20:1 VT

AC induction motor performance data

Record #83645 - Typical performance - not guaranteed values

Winding	A36WG4148
Type	A36070M
Enclosure	TEFC

Nameplate data

Rated Output			75
Volts			230/460
Full Load Amps			174/87
R.P.M.			1780
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	95.4	Power Factor	86
Duty			CONT
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	220 LB-FT
Start Configuration	direct on line
Breakdown Torque	487 LB-FT
Pull-up Torque	350 LB-FT
Locked-rotor Torque	420 LB-FT
Starting Current	542 A
No-load Current	28.17
Line-line Res. @ 25°C	0.0948 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	71°C
Locked-rotor Power Factor	35.7
Rotor inertia	16.2 lb-ft ²

Load Characteristics 460 V, 60 Hz, 75 HP

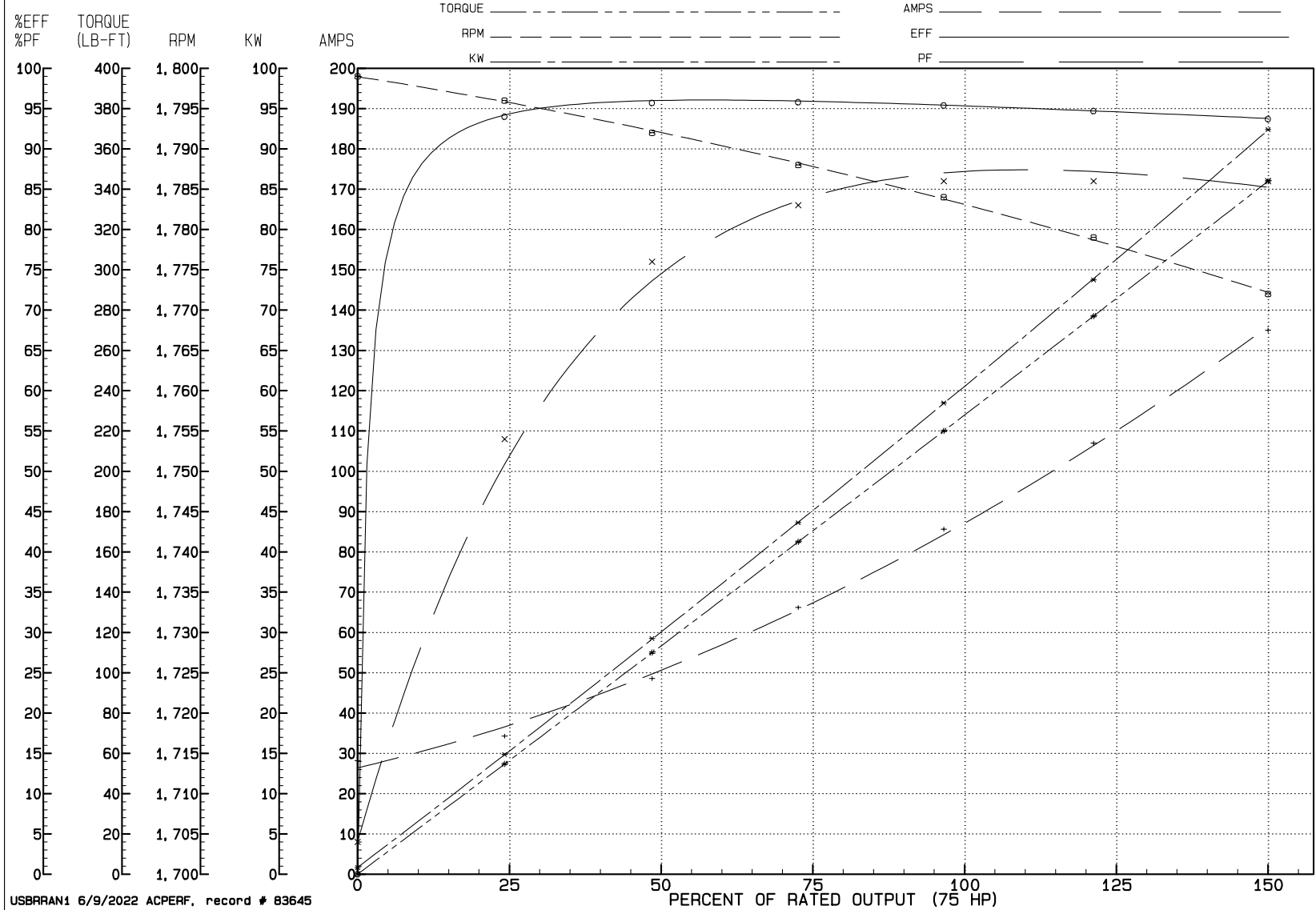
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	54	76	83	86	86	86	86
Efficiency	0	94	95.7	95.8	95.4	94.7	93.7	94.8
Speed	1799	1796	1792	1788	1784	1779	1772	1779
Line amperes	28.17	34.3	48.59	66.19	85.65	107	135	99.2

REVIEW

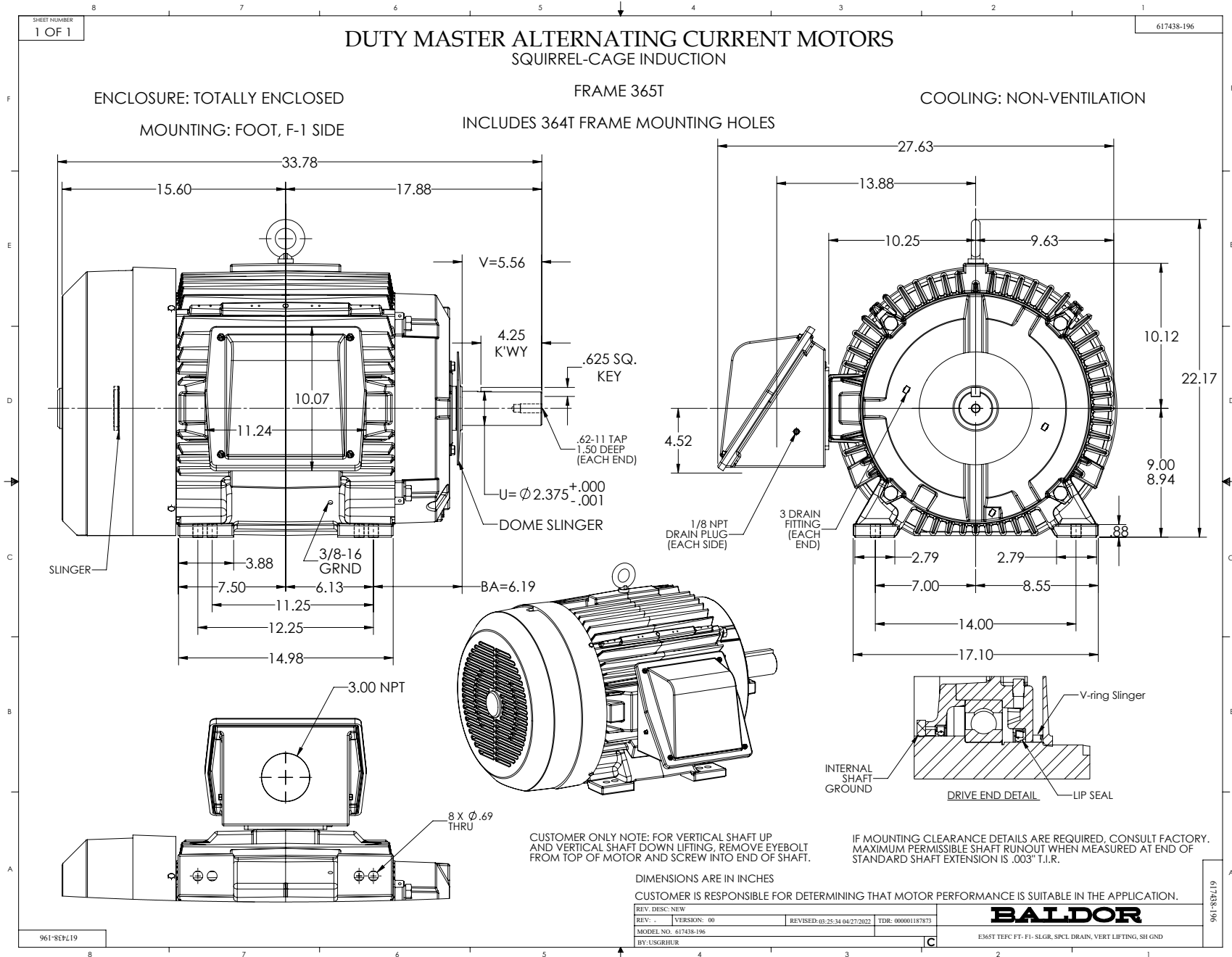
WINDING # A36WG4148

75 HP 3 PH 60 HZ 1780 RPM 460 V A36070M

TORQUES (LB-FT): PO=487.00 PU=350.00 LR=420.00 LRA=542.00

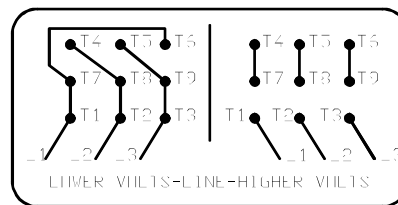
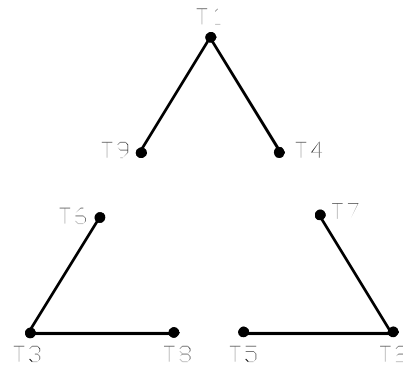


USBRRAN1 6/9/2022 ACPERF, record # 83645



416820-002

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



(N.P. 1575-B)

416820-002

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
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CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

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