

ABB BALDOR RELIANCE III

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
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	172.000 A @ 230.0 V 188.000 A @ 208.0 V 86.000 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	86.0 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	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4076
Layout	617438-196
Eff. date	11-14-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	07-22-2025

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.		A36-0008-4076						
HP	75HP	AMPS		172/86			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				15.8		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 #71910 - Typical performance - not guaranteed values

Winding	A36WG4076
Type	A3670M
Enclosure	TEFC

Nameplate data

Rated Output	75		
Volts	230 / 460		
Full Load Amps	172 / 86		
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	220.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	618 LB-FT
Pull-up Torque	341 LB-FT
Locked-rotor Torque	434 LB-FT
Starting Current	545 A
No-load Current	27.5
Line-line Res. @ 25°C	0.081965 Ω
Temp. Rise @ Rated Load	60°C
Temp. Rise @ S.F. Load	75°C
Locked-rotor Power Factor	31.8
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	55	76	83	86	86	86	86
Efficiency	0	93.8	95.6	95.8	95.4	94.8	93.9	95
Speed	1798.9	1796.6	1791.5	1787.3	1782.2	1776.4	1769.9	1779
Line amperes	27.5	33.9	48.2	66	85.5	107	131	98.4

ABB BALDOR RELIANCE III REVIEW

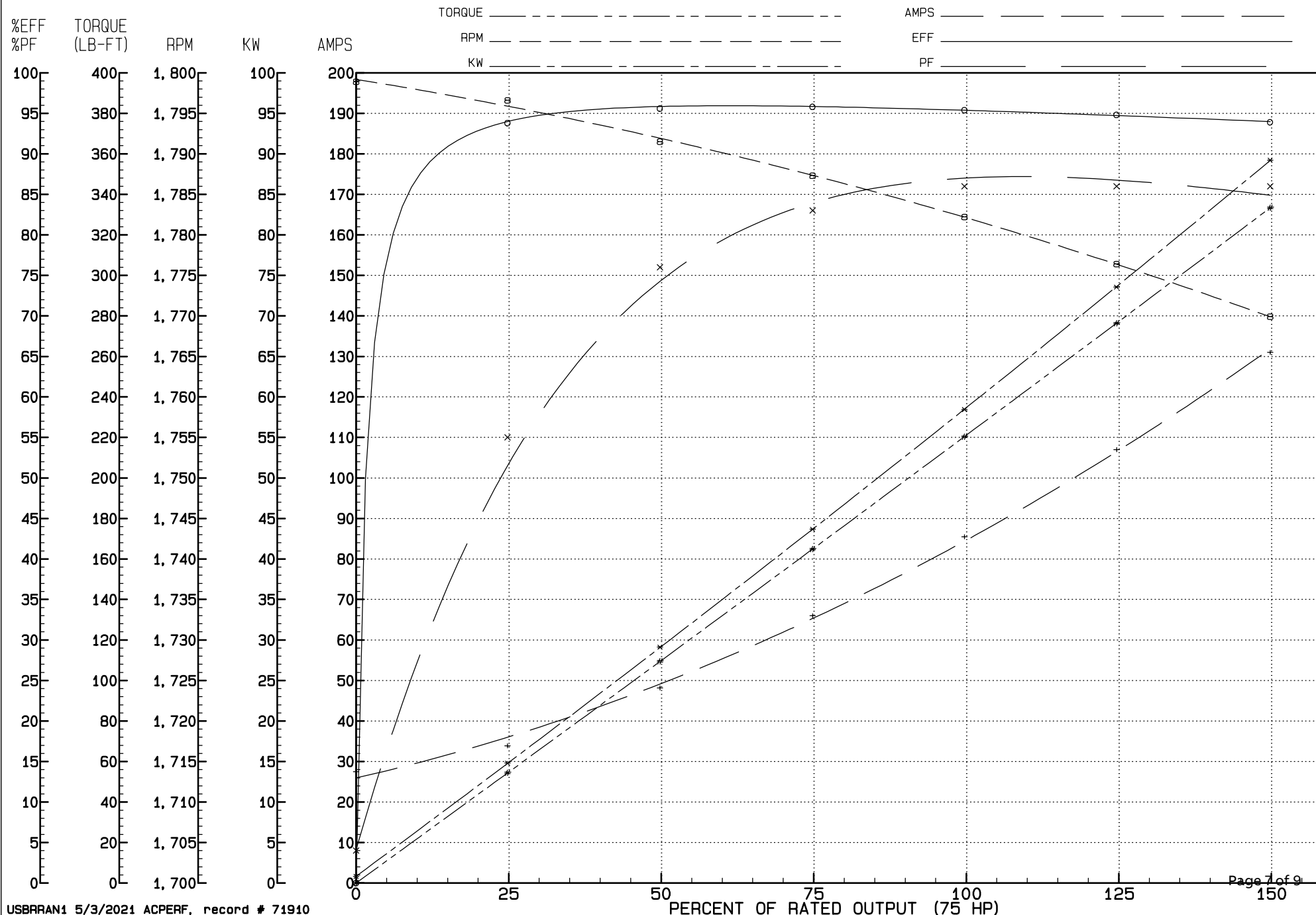
CUSTOMER INFORMATION PACKET

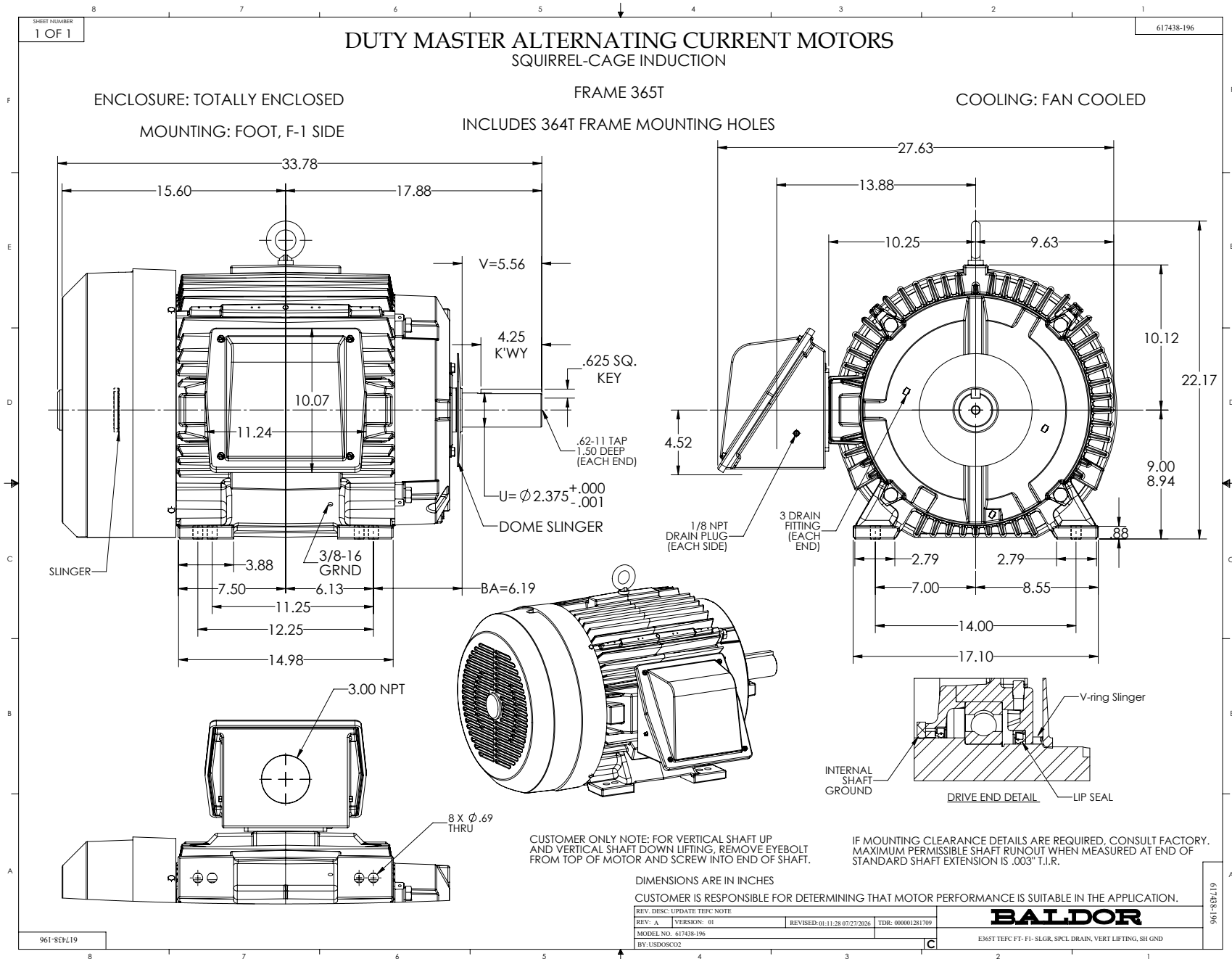
ECTM4316T-G - 75HP, 1780RPM, 3PH, 60HZ, 364T, A36070M, TEFC

WINDING # A36WG4076

75 HP 3 PH 60 HZ 1780 RPM 460 V A3670M

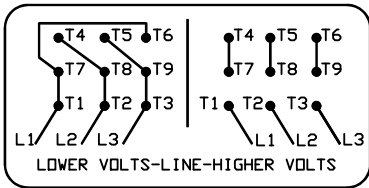
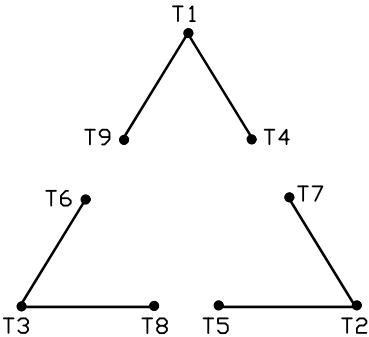
TORQUES (LB-FT): P0=618.00 PU=341.00 LR=434.00 LRA=545.00





416820-002

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



(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -		



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED
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