ABB BALDOR RELIANCE

Customer information packet

ECTM4316T-5G

75HP, 1780RPM, 3PH, 60HZ, 364T, A36070M, TEFC
Class - None
Division - Not Applicable

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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	575.0 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	69.000 A @ 575.0 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	69.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36070M
Mounting Arrangement	F1

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4078
Layout	617438-196
Eff. date	02-13-2025
CD Diagram	416820-036
Poles	04
Leads	3#4
Proprietary	False
Created date	04-12-2022

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-5G			**SPEC NO.**	A36-6008-4078							
HP	75HP	**AMPS**	69		**VOLTS**	575		**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 #71925 - Typical performance - not guaranteed values

Winding	A36WG4078
Type	A3670M
Enclosure	TEFC

Nameplate data

Rated Output			75
Volts			575
Full Load Amps			69
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			

575 V, 60 Hz:
Single Voltage Motor

Full Load Torque	220 LB-FT
Start Configuration	direct on line
Breakdown Torque	619 LB-FT
Pull-up Torque	339 LB-FT
Locked-rotor Torque	431 LB-FT
Starting Current	437 A
No-load Current	22.31
Line-line Res. @ 25°C	0.14 Ω
Temp. Rise @ Rated Load	61°C
Temp. Rise @ S.F. Load	77°C
Locked-rotor Power Factor	32.1
Rotor inertia	16.2 lb-ft²

Load Characteristics 575 V, 60 Hz, 75 HP

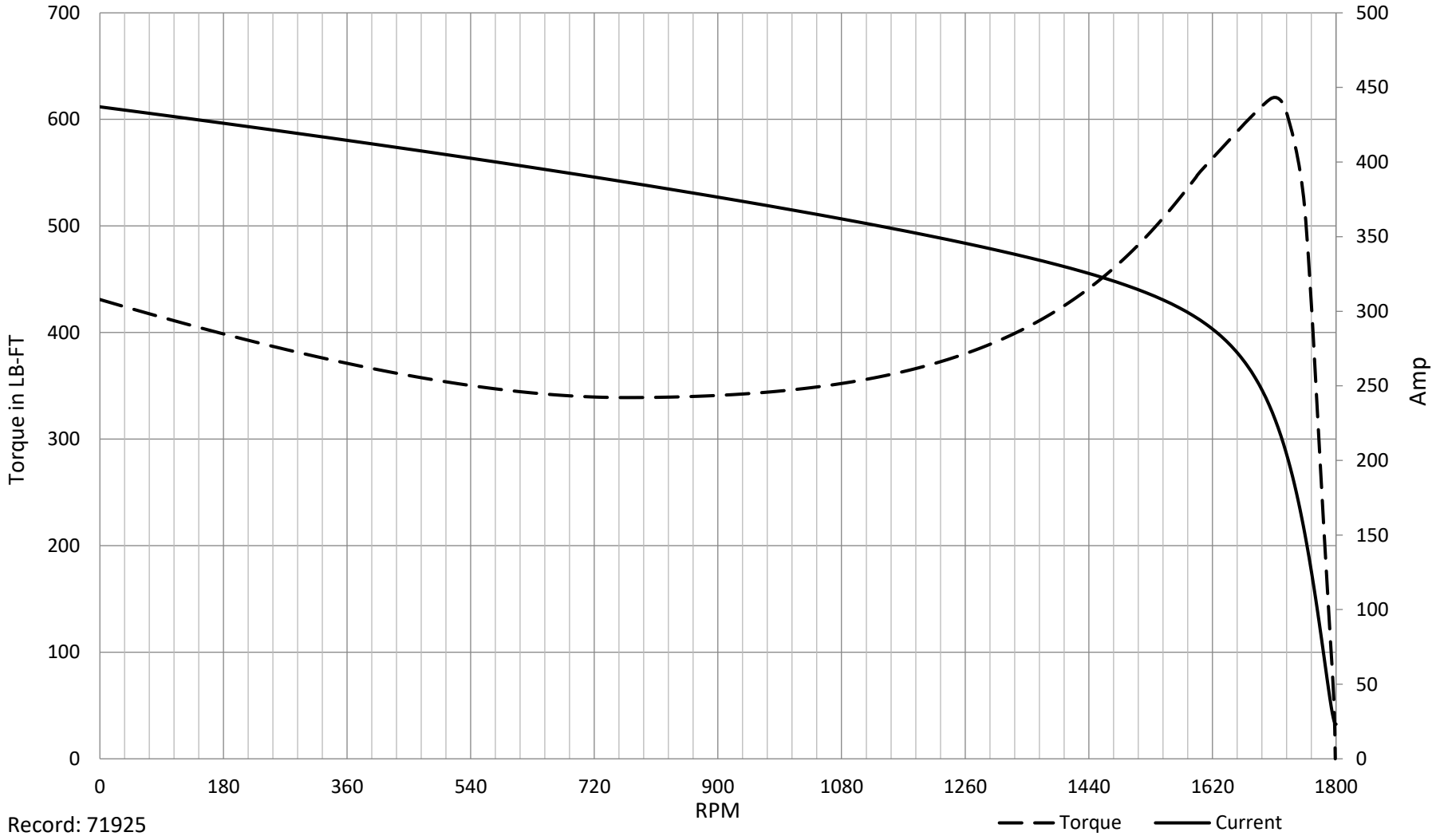
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	54	76	83	86	86	85	86
Efficiency	0	93.7	95.9	95.7	95.4	94.6	93.7	94.8
Speed	1799	1797	1792	1787	1782	1777	1770	1779
Line amperes	22.31	27.39	38.79	53.01	68.52	85.75	105	78.9

SPEED TORQUE / SPEED CURRENT CURVES

BALDOR • RELIANCE

A36WG4078

75HP 575V 60HZ



Record: 71925

SHEET NUMBER 1 OF 1

617438-196

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

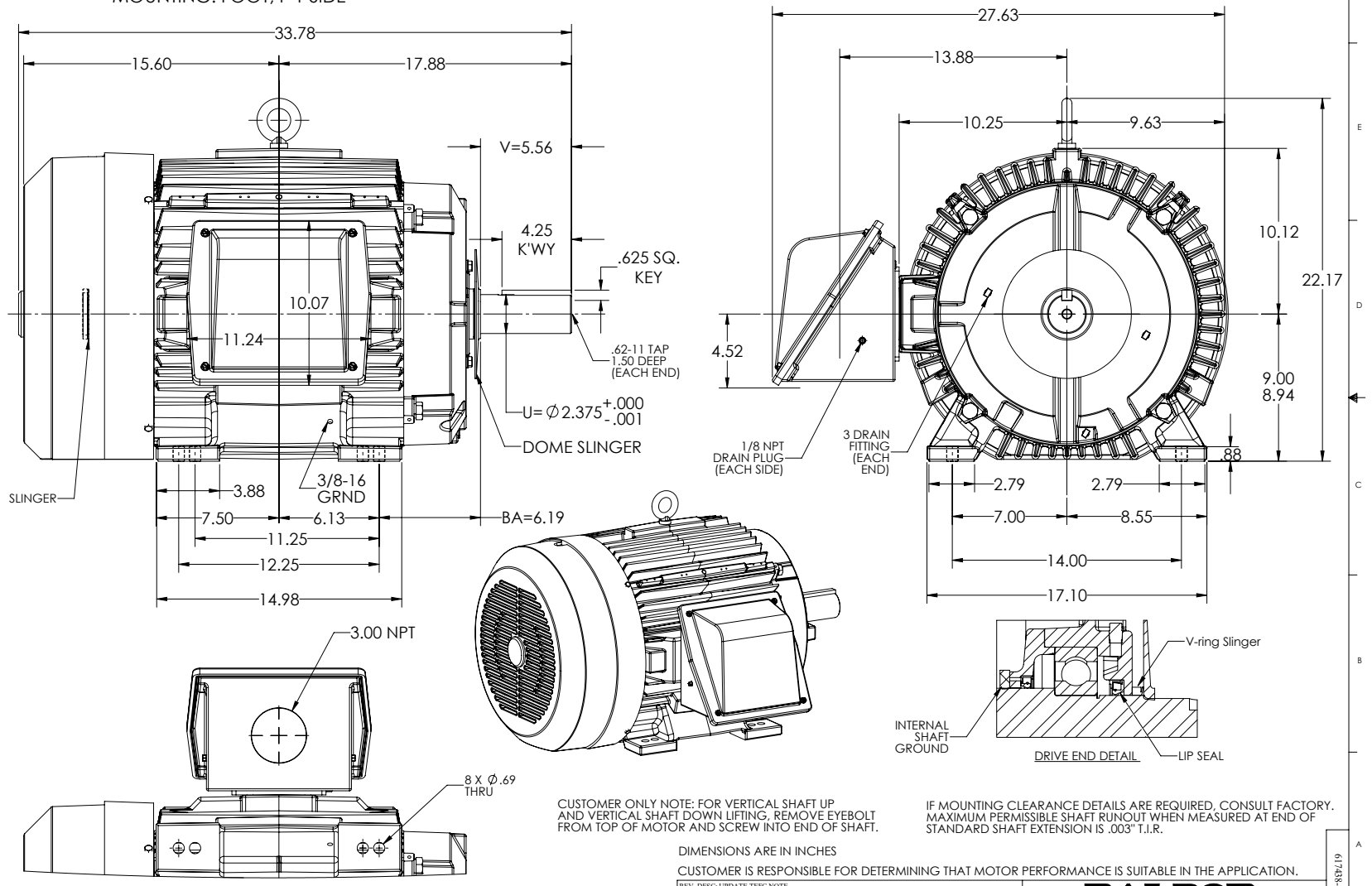
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-1 SIDE

FRAME 365T

INCLUDES 364T FRAME MOUNTING HOLES

COOLING: FAN COOLED



CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP AND VERTICAL SHAFT DOWN LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY. MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATE TEFC NOTE			
REV: A	VERSION: 01	REVISED: 01:11:28 07/27/2026	TDR: 000001281709
MODEL NO. 617438-196			
BY: USDOSCO2			C

BALDOR

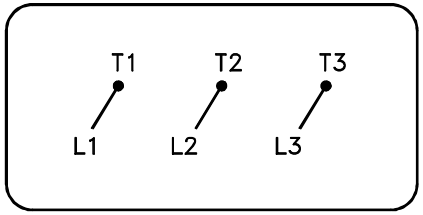
E365T TEFC FT- F1- SLGR, SPCL DRAIN, VERT LIFTING, SH GND

617438-196

617438-196

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
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1