ABB BALDOR RELIANCE

Customer information packet

FDEM4316T-5

75HP, 1780RPM, 3PH, 60HZ, 365T, A36070M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	365T
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
	UR
	NEMA PREMIUM (OLD LOGO)
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	86.000 A @ 460.0 V
	188.000 A @ 208.0 V
	172.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	86.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4076
Layout	617428-032
Eff. date	07-24-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	07-23-2025

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
Number of Poles	4
Overall Length	33.47 IN
Power Factor	86
Product Family	FARM DUTY
Pulley End Bearing Type	Ball
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL POLYREX EM

NP3159L										
SPEC NO.	A36-0050-4078	**CAT.NO.**	FDEM4316T-5					**FRAME**	365T	
HP	75	**VOLTS**	230/460	**PHASE**	3	**DESIGN**	B	**TYPE**	P	
RPM	1780	**AMPS**	172/86	**HZ**	60	**AMB**	40	**SF**	1.15	
DRIVE END BEARING	65BC03JGG30A	**DUTY**	CONT	**INSUL.CLASS**	F					
OPP D.E. BEARING	65BC03JGG30A	**ENCL**	TEFC	**CODE**	G					
SER.NO.		**POWER FACTOR**	86			**NEMA-NOM-EFFICIENCY**	95.4			
						MAX CORR KVAR	15.8	**GUARANTEED EFFICIENCY**	94.5	
						NEMA NOM/CSA QUOTED EFF				
								MOTOR WEIGHT	965	

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

CUSTOMER INFORMATION PACKET

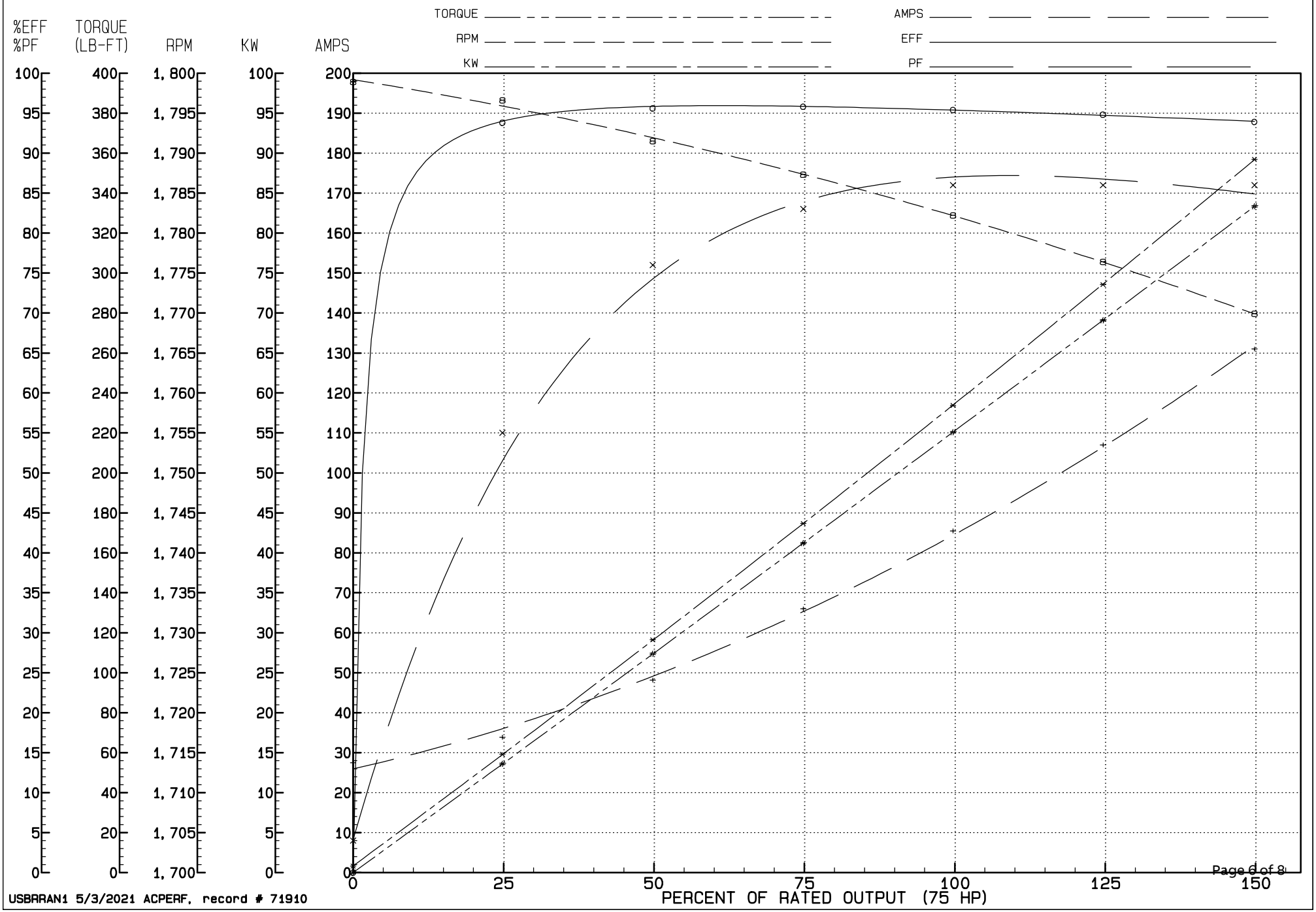
FDEM4316T-5 - 75HP, 1780RPM, 3PH, 60HZ, 365T, A36070M, TEFC

WINDING # A36WG4076

REVIEW

75 HP 3 PH 60 HZ 1780 RPM 460 V A3670M

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



USBRRAN1 5/3/2021 ACPERF, record # 71910

DUTY MASTER ALTERNATING CURRENT MOTORS

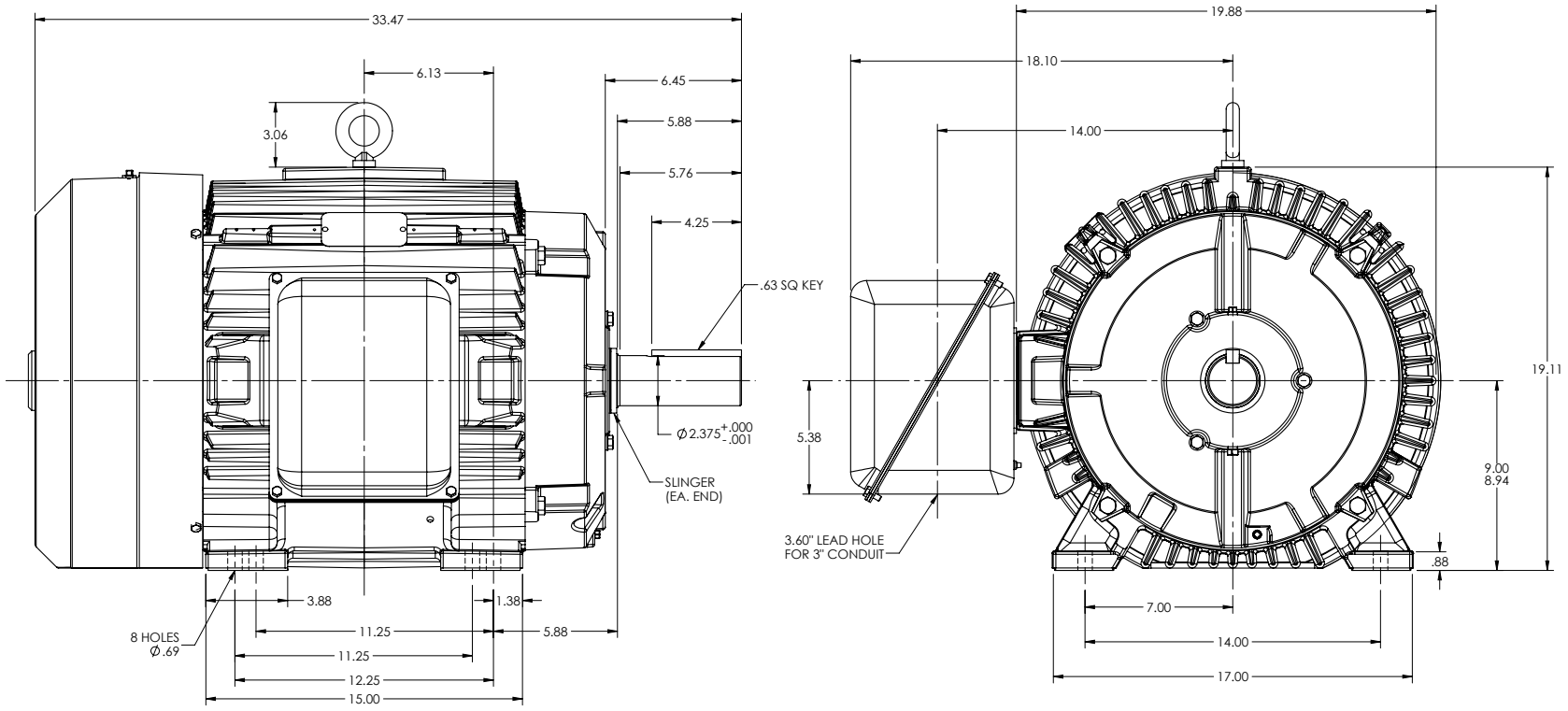
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

617428-032

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364T-365T

COOLING: FAN COOLED



MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .003 T.I.R.

WEIGHT (LBS): 364T = 800
365T = 840

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: UPDATE MODEL TO ADD EXT HARDWARE NO CHG TO PRINT			
REV: B	VERSION: 02	REVISED: 02:20:10 07/07/2022	TDR: 000001193529
MODEL NO. 617428-032			REF:
BY: USBUFRA			B

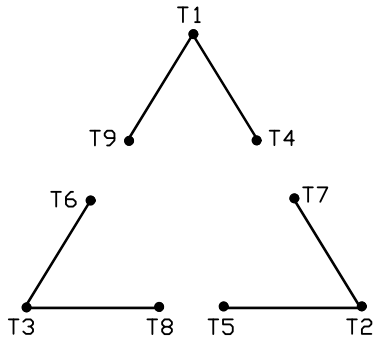
BALDOR

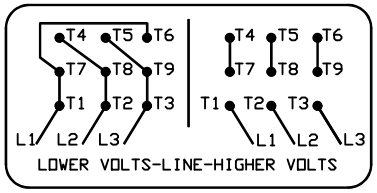
DIM SHT TEFC 364-365T FT MTG W/SLINGERS, GRSR AND RELIEF

617428-032

416820-002

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





(N. P. 1575-B)

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: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002