BALDOR • RELIANCE

Customer information packet

FDEM4316T

75HP, 1780RPM, 3PH, 60HZ, 365T, 1482M, TEFC, F1
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
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	86.0 a
Insulation Class	F

Part detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4076
Layout	617428-066
Eff. date	02-13-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6 Y
Proprietary	False
Created date	05-16-2019

Inverter Code	Inverter Ready
IP Rating	IP54
KVA Code	G
Lifting Lugs	No 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	33.48 IN
Power Factor	86
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	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

NP3159L											
SPEC NO.	A36-7266-4076	**CAT.NO.**	FDEM4316T					**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		
	IP54					**MAX CORR KVAR**	15.8	**GUARANTEED EFFICIENCY**	94.5		
	SUIT FOR 208 V @ 188 AMPS					**NEMA NOM/CSA QUOTED EFF**					
	USE @ 50HZ 60HP 190/380V 168/8			4A 1.0SF				**MOTOR WEIGHT**			

AC induction motor performance data

Record #71910 - Typical performance - not guaranteed values

Winding	A36WG4076
Type	A3670M
Enclosure	TEFC

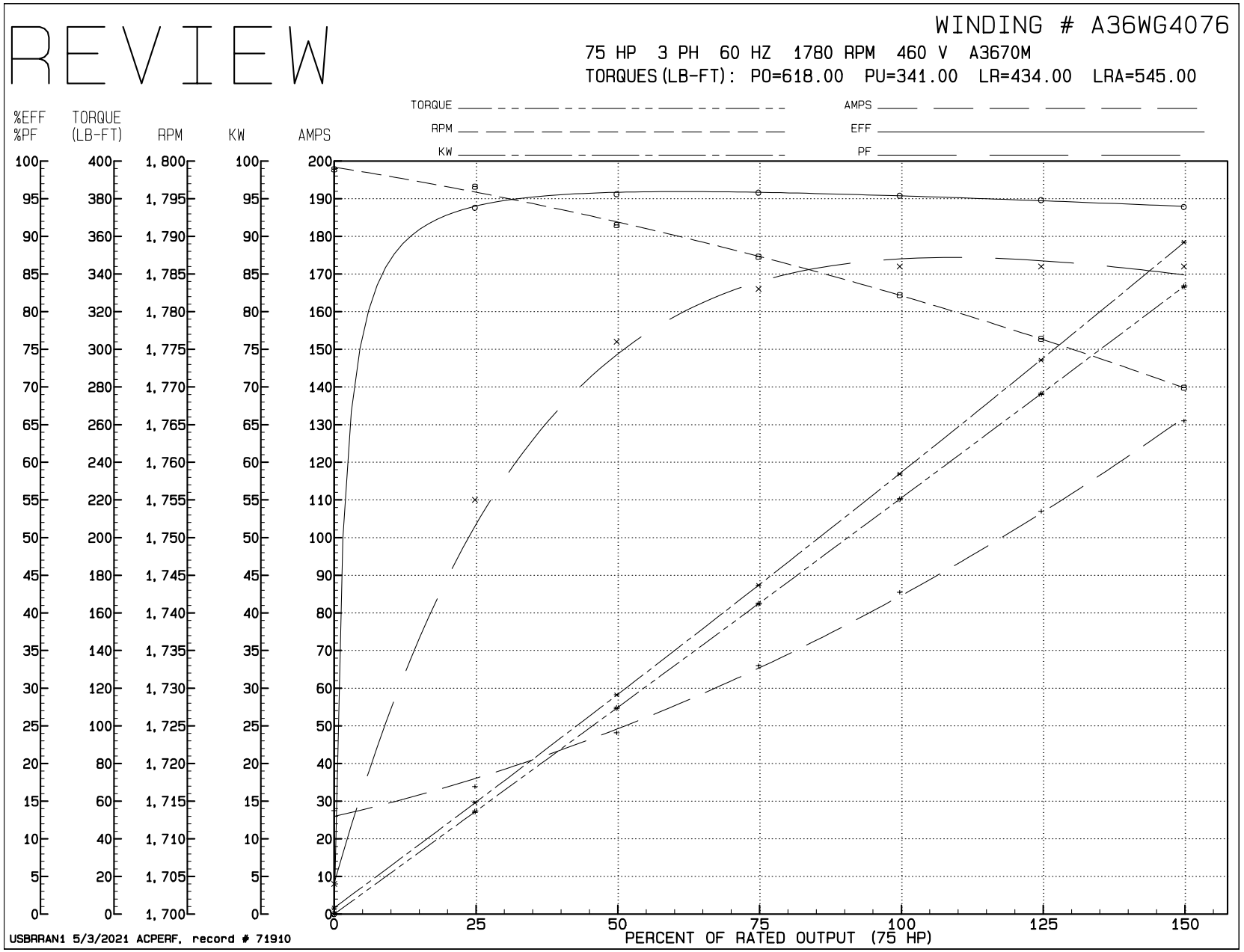
Nameplate data			
Rated Output			75
Volts			230/460
Full Load Amps			172/86
R.P.M.			1780
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	95.4	Power Factor	86
Duty			CONT
S.F. Amps			

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


REVIEW
WINDING # A36WG4076
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
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (75 HP)
USBRAN1 5/3/2021 ACPERF, record # 71910

DUTY MASTER ALTERNATING CURRENT MOTORS

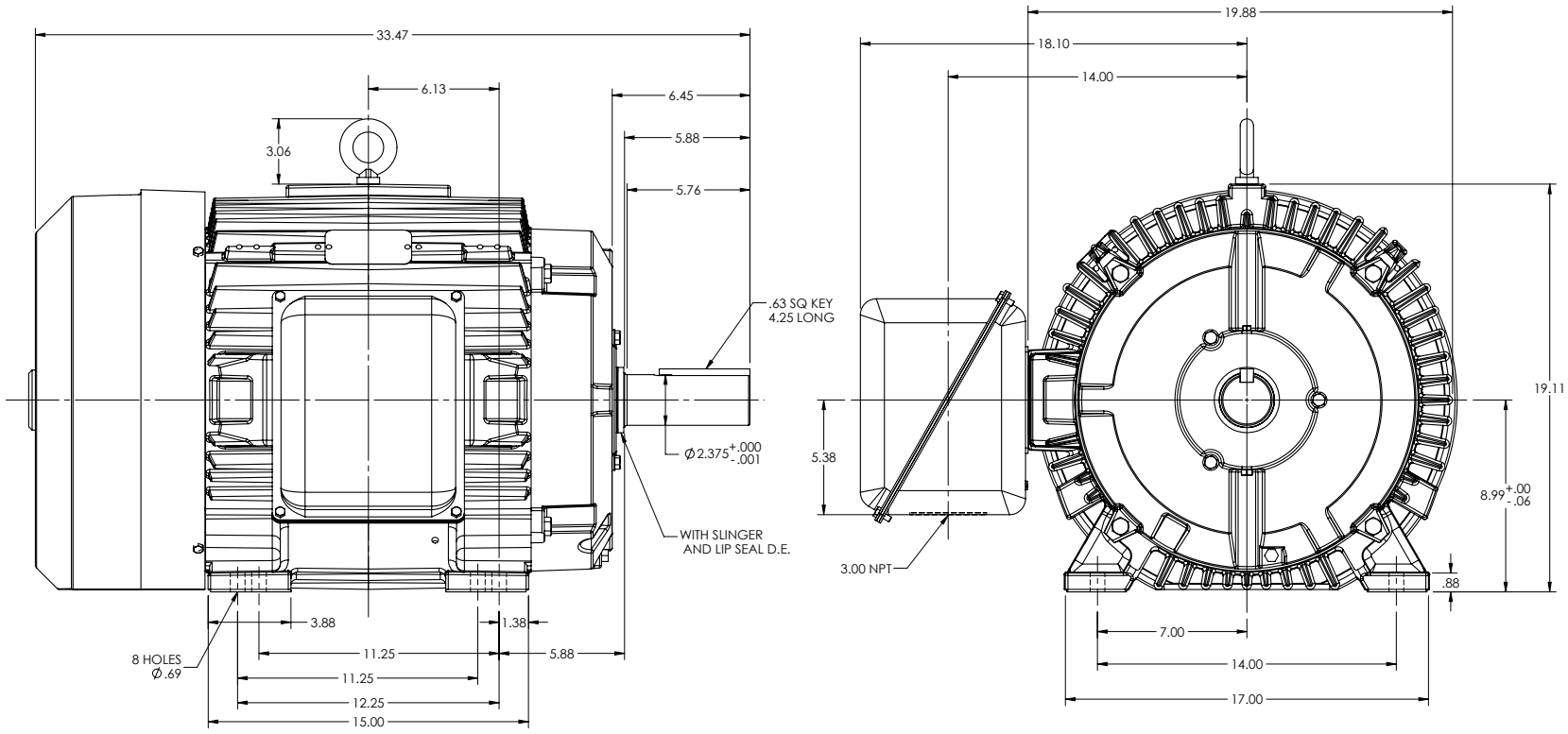
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

617428-066

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 EXTERNAL HARDWARE PER PROD MGM			
REV: A	VERSION: 01	REVISED: 02:44:51 09/29/2022	TDR: 000001196512
MODEL NO. 617428-066			REF:
BY: ENFRAJ0			B

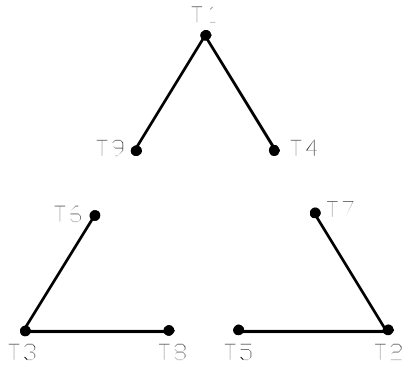
BALDOR

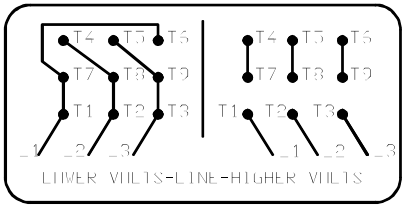
D/S TEFC 364-365T FT MTG W/PLUGS/LIP SEAL/SLINGERS/LIP SEAL

617428-066

416820–002

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





(N. P. 1575-B)

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REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
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MTL: –		

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CONN DIAG – STANDARD 9 LEAD, DELTA–CONNECTED

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