

ABB BALDOR RELIANCE III

Customer information packet

FDEM4314T

60HP, 1780RPM, 3PH, 60HZ, 364T, 1462M, TEFC, F1

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	60.000 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	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	140.000 A @ 230.0 V 152.000 A @ 208.0 V 70.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	70.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4075
Layout	617428-066
Eff. date	02-13-2025
CD Diagram	CD0180
Poles	04
Leads	3#4,6#6 Y
Proprietary	False
Created date	05-16-2019

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	9 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3658M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.48 IN
Power Factor	84
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 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.	A36-5276-4075			CAT.NO.		FDEM4314T				FRAME		364T		
HP	60	VOLTS		230/460		PHASE		3	DESIGN		B	TYPE	P	
RPM	1780	AMPS		140/70		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		84		NEMA-NOM-EFFICIENCY					95	
								MAX CORR KVAR		15	GUARANTEED EFFICIENCY		94.1	
SUIT FOR 208 V @ 152 AMPS								NEMA NOM/CSA QUOTED EFF						
50HZ 50HP 190/380V 138/69A 1.0								SF		MOTOR WEIGHT				910

Parts List

Part number	Description	Quantity
SA369873	SA A36-5276-4075	1.000 ea
RA359481	RA A36-5276-4075	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP3159L	SUPER-E FARM DUTY, SS, CC, CSA-C US,	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
702676001C	FAN 360	1.000 ea
078559001A	+FANCV - 360	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
410700004F	WSHR	1.000 ea
415072001B	CLAMP	1.000 ea
412118006A	DRAIN	1.000 ea
412118006A	DRAIN	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
085922093AE	BRKT 360 085922072WCC	1.000 ea
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
043292000AJ	GASK 320-400	1.000 ea
077176000L	C/BOX, PAINTED 440	1.000 ea
077176001A	CBOX Cover 360-400	1.000 ea
402731001A	GASK 360-440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/OAWG	1.000 ea
MG1025C02	WILKOFASST SG, 787.105, TAN	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	6.000 ea
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea

032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
415028001Y	SEAL - 360	1.000 ea
423709011C	WASHER	3.000 ea
415045002E	SLGR	1.000 ea
000692000CY	N/P	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
032509020C	CARRIAGE BOLT - 360	3.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea

AC Induction Motor performance data

Record #72794 - Typical performance - not guaranteed values

Winding	A36WG4075
Type	A3658M
Enclosure	TEFC

Nameplate data

Rated Output	60		
Volts	230 / 460		
Full Load Amps	140 / 70		
R.P.M.	1780		
Hz	60	Phase	3
KVA Code	G		
S.F.	1.15		
NEMA Nom. Eff.	95	Power Factor	84
Duty	CONT		
S.F. Amps			

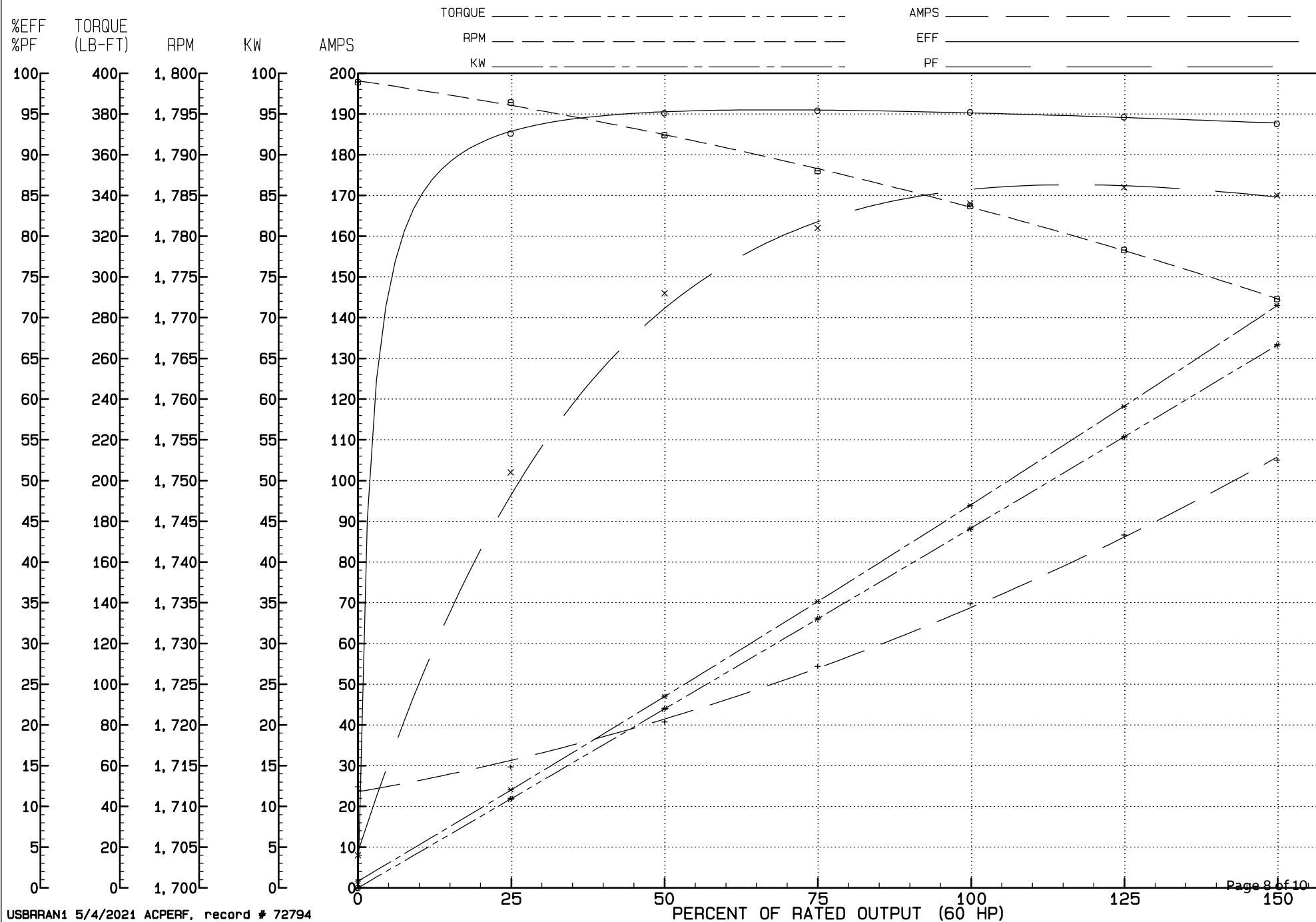
460 V. 60 Hz:

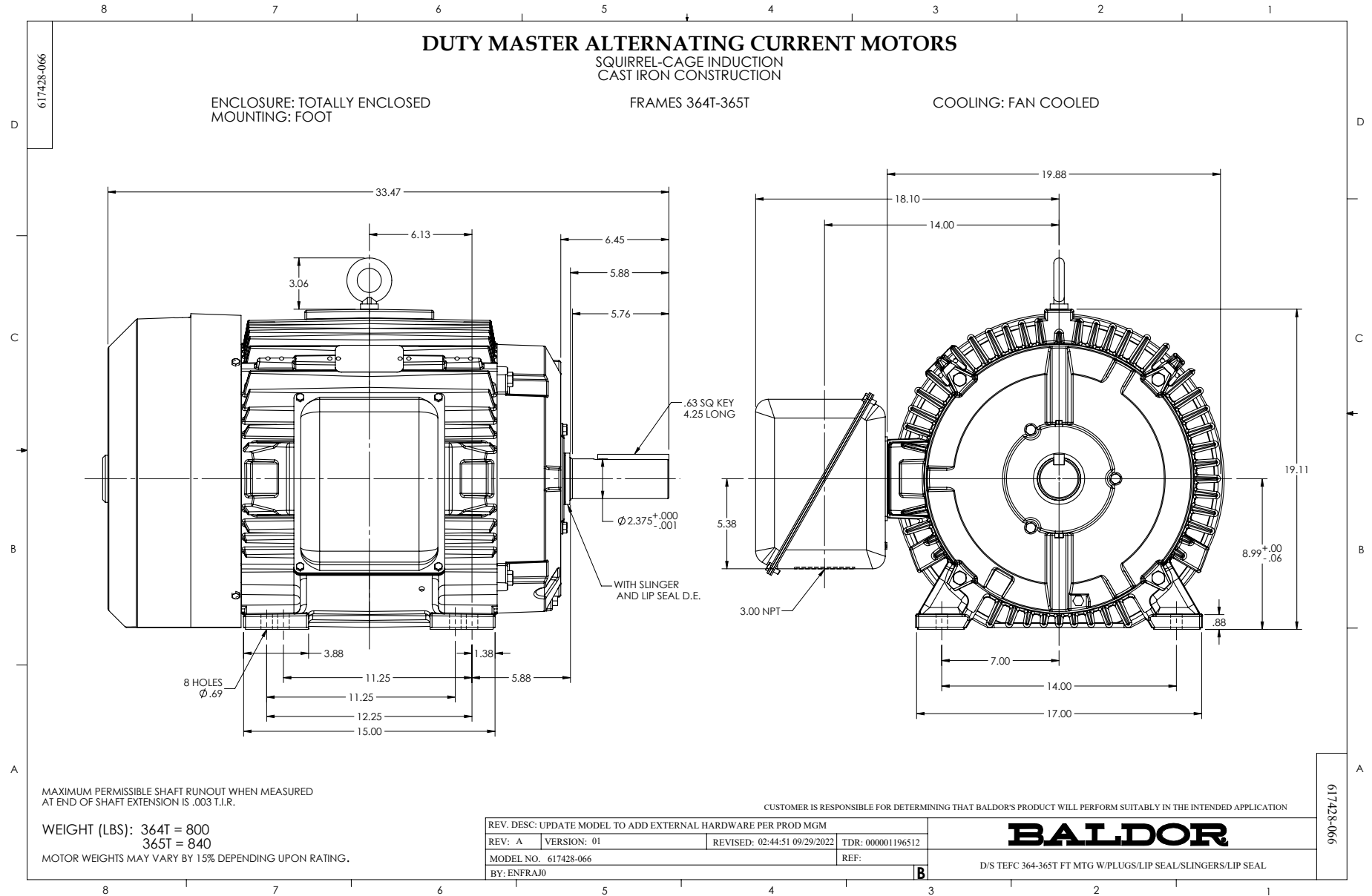
High Voltage Connection

Full Load Torque	176.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	422 LB-FT
Pull-up Torque	276 LB-FT
Locked-rotor Torque	352 LB-FT
Starting Current	462 A
No-load Current	24.8
Line-line Res. @ 25°C	0.10816 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	32.3
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	51	73	81	84	86	85	85
Efficiency	0	92.6	95.1	95.4	95.2	94.6	93.8	94.8
Speed	1798.9	1796.4	1792.4	1788	1783.7	1778.3	1772.3	1780
Line amperes	24.8	29.7	40.7	54.4	69.7	86.6	105	79.8





CD0180


LOW VOLTAGE
(2D)

HIGH VOLTAGE
(1D)

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180