

ABB BALDOR RELIANCE III

Customer information packet

EM4308T

40HP, 1190RPM, 3PH, 60HZ, 364T, A36062M, 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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	107.000 A @ 208.0 V 49.800 A @ 460.0 V 99.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	49.8 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	AF
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1194
Layout	617428-011
Eff. date	07-08-2024
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.48 IN
Power Factor	80
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	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate
NP3979LUA

CAT #	EM4308T					SER				CC	010A					
SPEC	P36G3400					RATING	40C AMB-CONT									
HZ	VOLTS		AMPS			RPM	HP	CODE	-	SF	DES	PF	NEMA NOM. EFF			
60	230/460		99.6/49.8			1190	40	G		1.15	B	80	%	94.1	%	
	-												%		%	
PH	3	CL	F	MAX CORR KVAR		12										
BRG	DE	6313	ODE		6313	ENCL	TEFC	FR	364T		54					
GREASE		POLYREX EM							MTR WT		847	LBS				
USABLE AT		50HZ 30HP 190/380V 98/49A							SF1.0							
INVERTER DUTY		CT	15-60	HZ	4:1	VT	3-60	HZ	20:1	CHP	60-90	HZ	1.5:1	1.0 SF VPWM		
MAX RPM		1800	SFA 113/56.3													

Parts List

Part number	Description	Quantity
SA209366	SA P36G3400	1.000 ea
RA196628	RA P36G3400	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP3979LUA	SS SUPER-E UR CSA-C-US-EEV NEMA PREM CC	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
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
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
078550001M	FAN KB 60/30 (30) 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
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
415045002E	SLGR	1.000 ea
085922073B	BRKT 360 085922072WCC KB	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-4/0AWG	1.000 ea
MG1025Y17	WILKOFAST, 789.701, SUPER E PEARL GOLD	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 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
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea

AC Induction Motor performance data

Record #93159 - Typical performance - not guaranteed values

Winding	A36WG1194
Type	A3662M
Enclosure	TEFC

Nameplate data

Rated Output	40		
Volts	230 / 460		
Full Load Amps	99.6 / 49.8		
R.P.M.	1190		
Hz	60	Phase	3
KVA Code	G		
S.F.	1.15		
NEMA Nom. Eff.	94.1	Power Factor	80
Duty	CONT		
S.F. Amps			

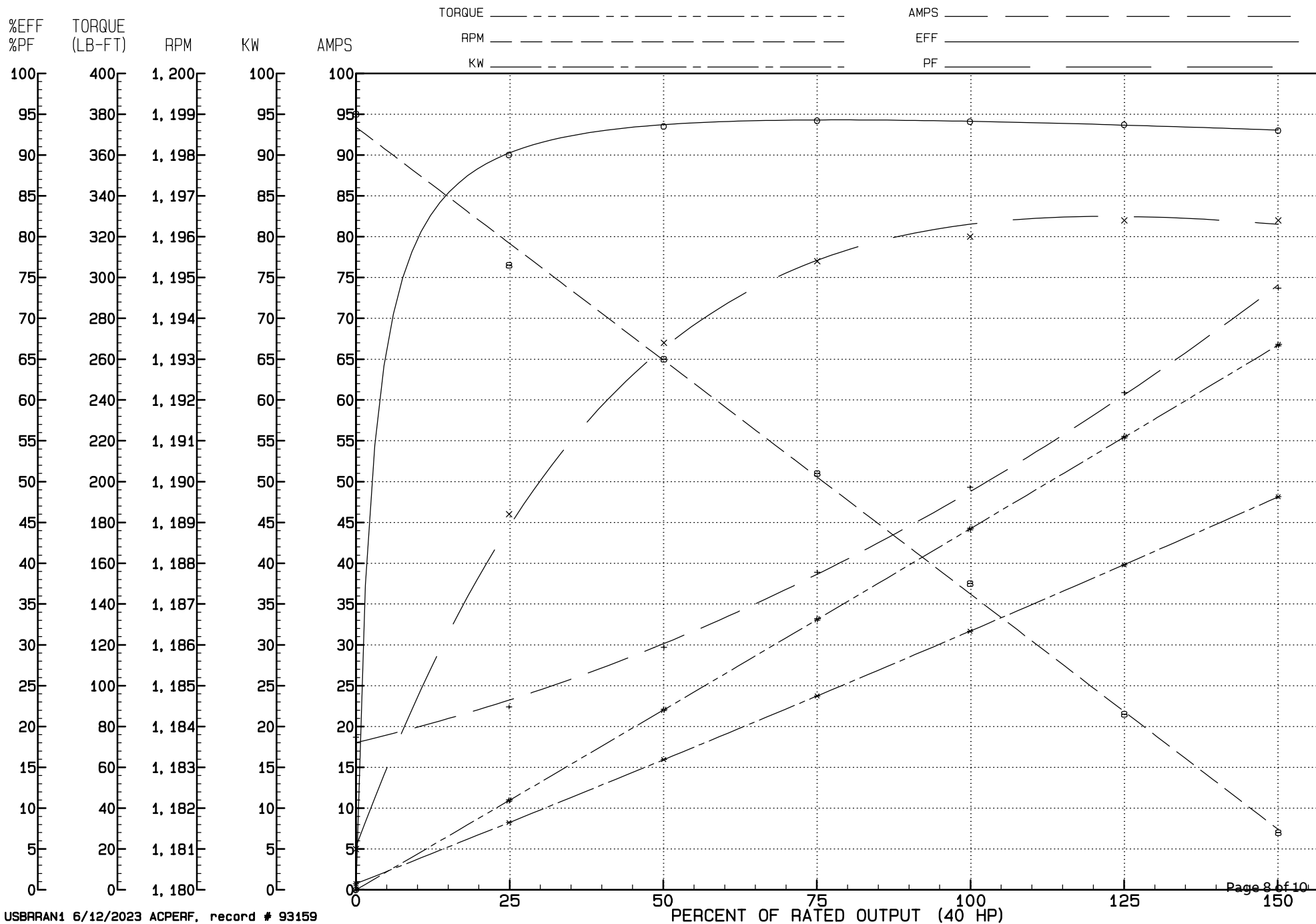
460 V. 60 Hz:

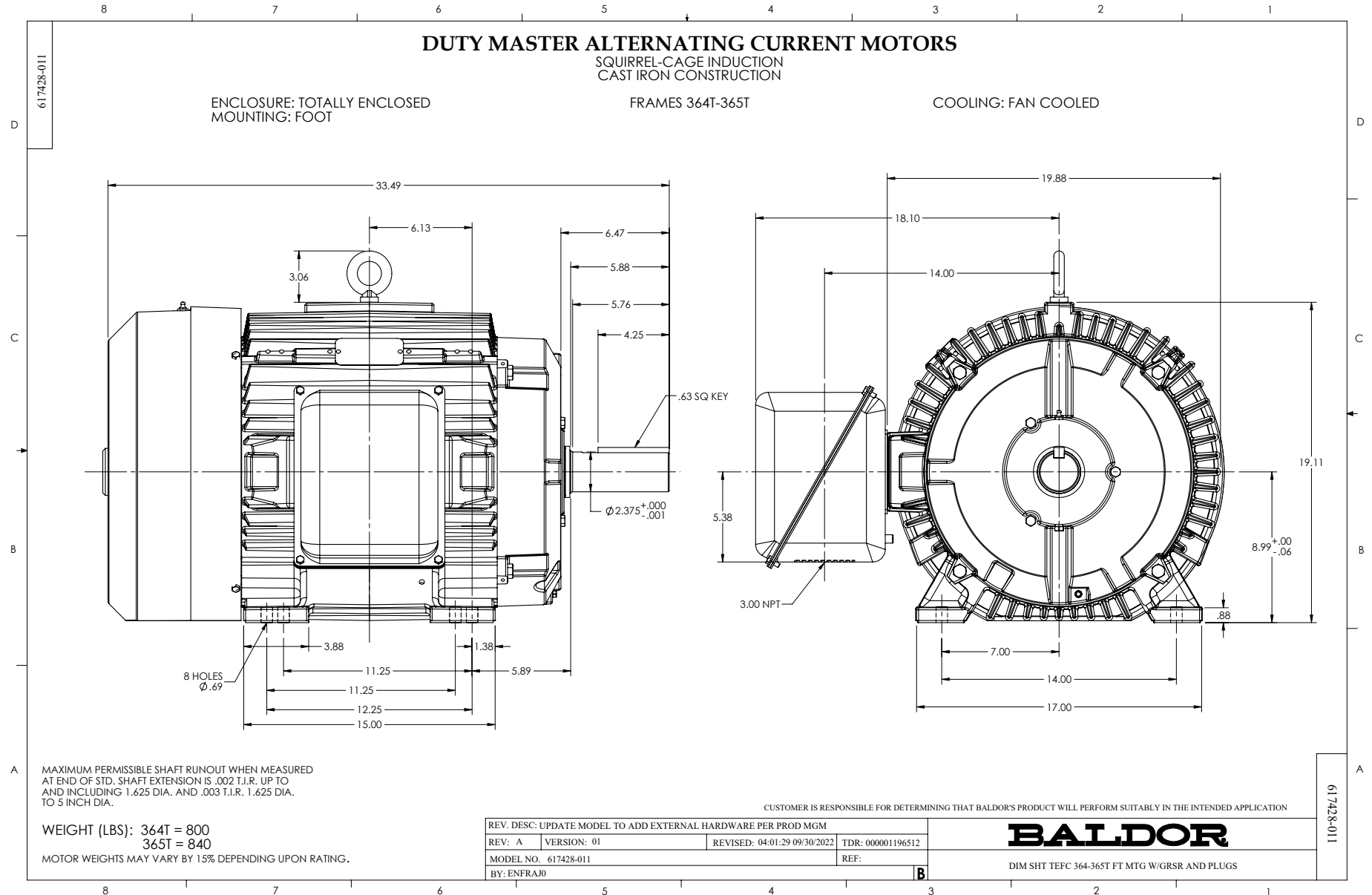
High Voltage Connection

Full Load Torque	176.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	514 LB-FT
Pull-up Torque	266 LB-FT
Locked-rotor Torque	335 LB-FT
Starting Current	312 A
No-load Current	18.7
Line-line Res. @ 25°C	0.14922 Ω
Temp. Rise @ Rated Load	43°C
Temp. Rise @ S.F. Load	51°C
Locked-rotor Power Factor	25.4
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 40 HP

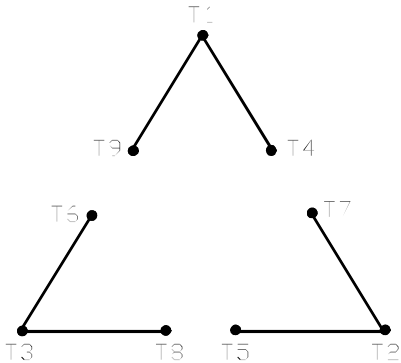
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	46	67	77	80	82	82	81
Efficiency	0	90	93.5	94.2	94.1	93.7	93	93.9
Speed	1199	1195.3	1193	1190.2	1187.5	1184.3	1181.4	1186
Line amperes	18.7	22.4	29.7	38.9	49.3	60.9	73.7	56.3





416820-002

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002