



Customer information packet

CEM4310T

60HP, 3600RPM, 60HZ, 364TSC, TEFC
ELECTRIC MOTOR WHOLESale.COM

Specifications

BASIC CONFIGURATION

Product Family	General Purpose, 3Ph, Enclosed
HP Rating	60
Frequency (HZ)	60
Voltage	230/460
Division	None
Temp Code	None
Enclosure	TEFC
CT Turn Down	4:1
VT Turn Down	20:1
Inverter	Yes
Efficiency	Premium Eff. (NEMA 12-12)
Duty	Cont
Design Letter	B
Frame Material	Cast Iron

ELECTRICAL

Tropicalized Protection	No
Starting Method	Standard Start
Motor Space Heater	No

BEARINGS

Bearing Type DE	Ball
Bearing Type ODE	Ball
Grease Fittings Rqd	Yes

PACKAGING

Pallet Type	Standard
Packaging Type	Standard Packing

MECHANICAL

Part detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0224-DES
Layout	A36C-00000000032
Eff. date	08-07-2020
CD Diagram	416820-002
Poles	02
Leads	3#4,6#6
Proprietary	False
Created date	08-07-2020

Balance	Standard (0.15 in/sec)
Fan Material	Standard
Fan Housing Material	Steel
Ingress Protection	IP54
Drip Cover Required	No
Paint System	Standard (C2)
Paint Color	Gold
Shaft Grounding	None
Frame Grounding Required	Yes
Auto Drain Type	"T" Drain – Plastic

CONDUIT BOX

Main Conduit Box Location	Standard (side)
Main Conduit Box Material	Steel
Main Conduit Box Size	Standard Oversize
Lead Entry Location	Toward Feet - Down
Terminal Blocks - Main Leads	No
Auxiliary Conduit Box 1 Loc	None
Auxiliary Conduit Box 2 Loc	None

MONITORING DEVICES

Winding Thermistor	No
Winding Thermostat	No

MOUNTING

Mounting Flange - DE	C-Face
Mounting Flange - ODE	None
Mounting Position	F-1
Frame Mounting	Foot
Foot Planarity	None
Drive Method	Coupled
Vertical Lifting Required	No
Shaft Extension	TSC

NAMEPLATE / LABELS

Auxiliary Nameplate Required	No
Nameplate Data Type	Etched
Label CSA	Yes
Label CE	N/A
Label UR	Yes

Nameplate

NP3979LUA

CAT #		CEM4310T				SER						CC		010A															
SPEC		A36C-0000000032				RATING		40C AMB-CONT																					
HZ		VOLTS		AMPS		RPM		HP		CODE		SF		DES		PF		NEMA NOM. EFF											
60		230/460		130/65.1		3560		60		G		1.15		B		91 %		95.0 %											
																% %													
PH	3	CL	F	MAX CORR KVAR		5.00		USABLE AT 208V				143		A															
BRG		DE		6313		ODE		6313		ENCL		TEFC		FR		364TSC		IP54											
GREASE		POLYREX EM								MTR WT				870						LBS									
USABLE AT		50HZ 50HP 190/380V 130/65A																											
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		5400																											

Parts list

Part number	Description	Quantity
A36WS0224F00	A36WG0224 WOUND STATOR CLASS F	1.000 ea
033050001C	IBOLT - 360	1.000 ea
085918051A	FRME 360 085918020WCB KB	1.000 ea
403783000AE	PIN 3/8"X2"L	1.000 ea
004824018L	RTV 732 CLEAR 10.1 OZTUBE	0.002 lb
A36WG0130-ROTOR	ROTOR CONFIG	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
034180016GA	KEY 1/2X1/2X2 L	1.000 ea
609142118RA	SHFT CL1 3.25X30.21 KB	1.000 ea
603298012A	CAP,LOCKING,313 BRG - 603298011WCA	1.000 ea
603298012B	CAP,NON-LOCKING,313 BRG 603298011WCA	1.000 ea
416821003FP	6313 C3 - - STL ABEC1 S SLUSH	1.000 ea
416821003FP	6313 C3 - - STL ABEC1 S SLUSH	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
415045002E	SLGR	1.000 ea
085922070W	BRKT 360 085922069WCA	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
415045002E	SLGR	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 GALV.	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea

035000001A	ALFTG 1/8" 1610-BL	1.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
078559034A	+F/C A 078559001A - 360	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415072001B	CLAMP	1.000 ea
702675001C	FAN 360	1.000 ea
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 ea
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 ea
077176000L	C/BOX, PAINTED 440	1.000 ea
077176001A	CBOXC, PAINTED 360-400	1.000 ea
043292000AJ	GASK 320-400	1.000 ea
402731001A	GASK 360-440	1.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 ea
MG1025Y17	WILKOFAS T, 789.701, SUPER E PEARL GOLD	0.250 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.063 ga
482403003BEF	RUST VETO 342	0.002 ga
482403003BEF	RUST VETO 342	0.002 ga
LC0181	CONNECTION LABEL	1.000 ea
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
000692000VD	LABEL WARNING	1.000 ea
MN416	TAG-INSTAL-MAINT w/wire. (1200/bx) 3/19	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
032509020C	CARRIAGE BOLT - 360	3.000 ea
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 ea
NP3979LUA	SS SUPER-E UR CSA-C-US-EEV NEMA PREM CC	1.000 ea
410700004F	WSHR	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb

AC Induction Motor Performance Data

Record # 75474

Typical performance - not guaranteed values

Winding: A36WG0224-R001				Type: A3656M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		60		Full Load Torque		89.38 LB-FT			
Volts		230/460		Start Configuration		direct on line			
Full Load Amps		130/65.1		Breakdown Torque		323 LB-FT			
R.P.M.		3560		Pull-up Torque		132 LB-FT			
Hz		60 Phase		3		Locked-rotor Torque		178 LB-FT	
NEMA Design Code		B		KVA Code		G		Starting Current	435 A
Service Factor (S.F.)		1.15		No-load Current		14.7 A			
NEMA Nom. Eff.		95		Power Factor		91		Line-line Res. @ 25°C	0.0954 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		75°C			
S.F. Amps				Temp. Rise @ S.F. Load		94°C			
				Locked-rotor Power Factor		29.8			
				Rotor inertia		7.07 lb-ft²			

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	70	85	90	91	91	90	91
Efficiency	92.6	94.9	95.1	94.7	94.2	92.9	94.4
Speed	3590	3581	3571	3561	3549	3535	3554
Line amperes	22.3	35.3	49.9	65.7	82.3	101	75.7

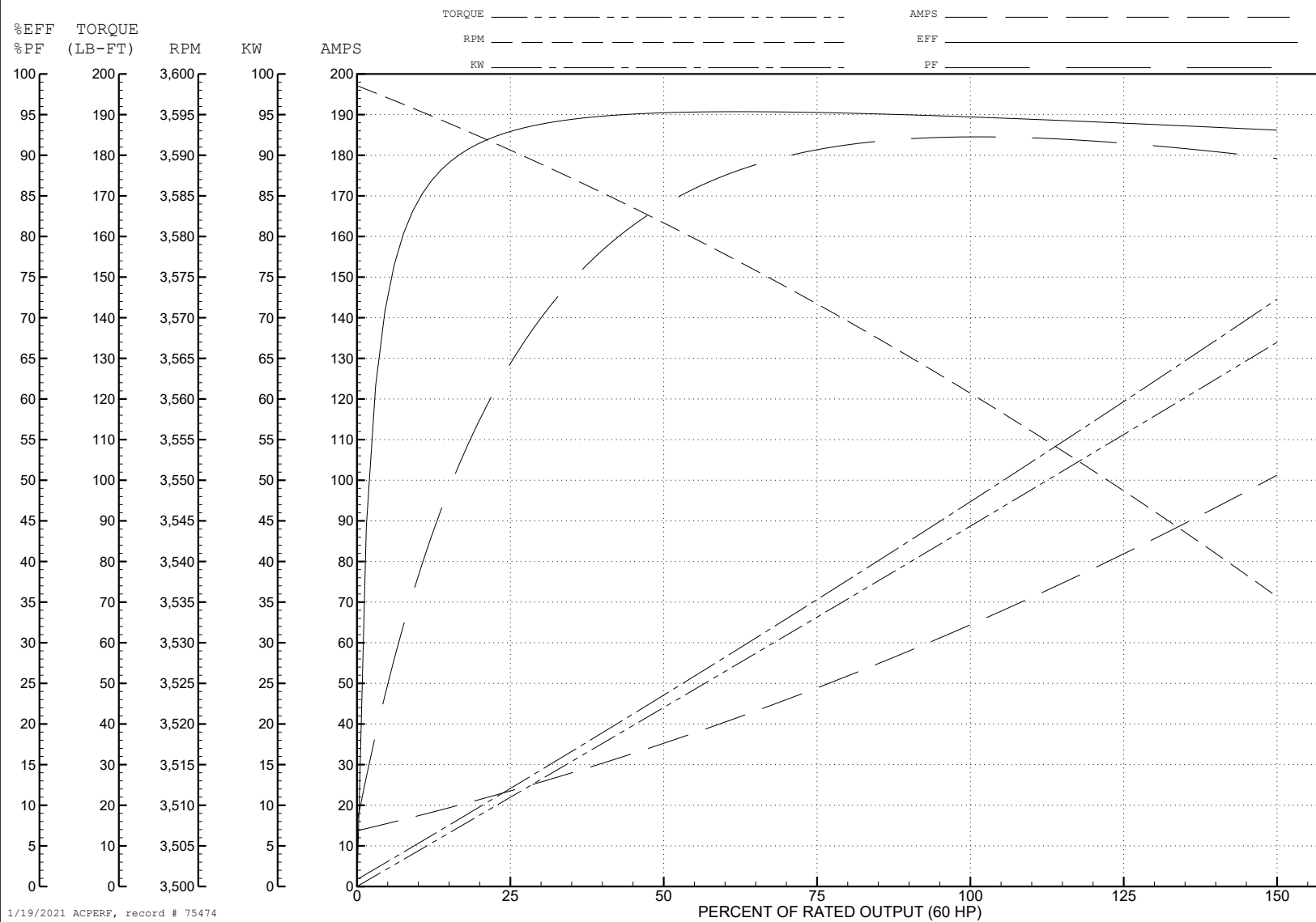
ABB Motors and Mechanical Inc.

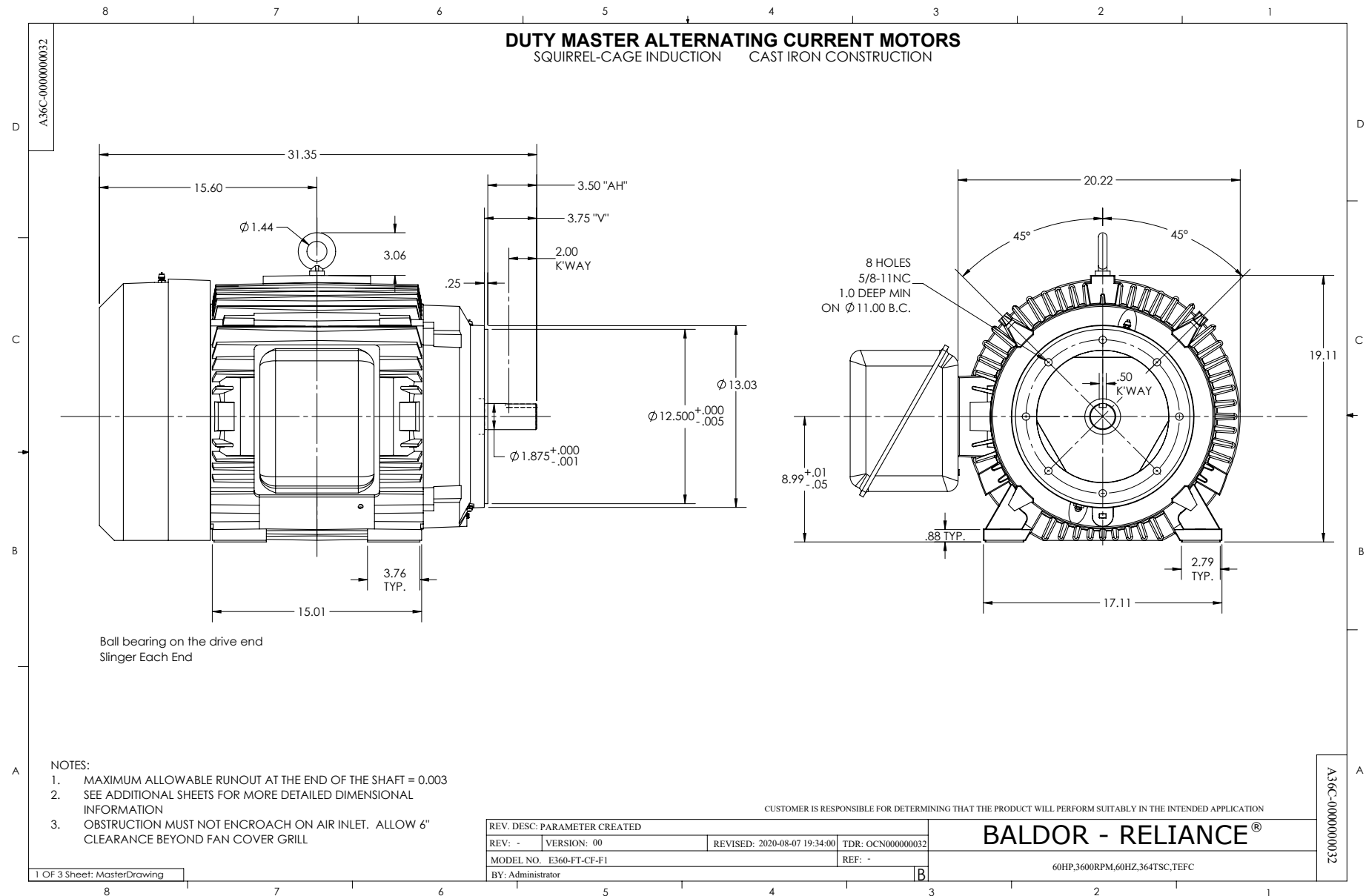
WINDING # A36WG0224

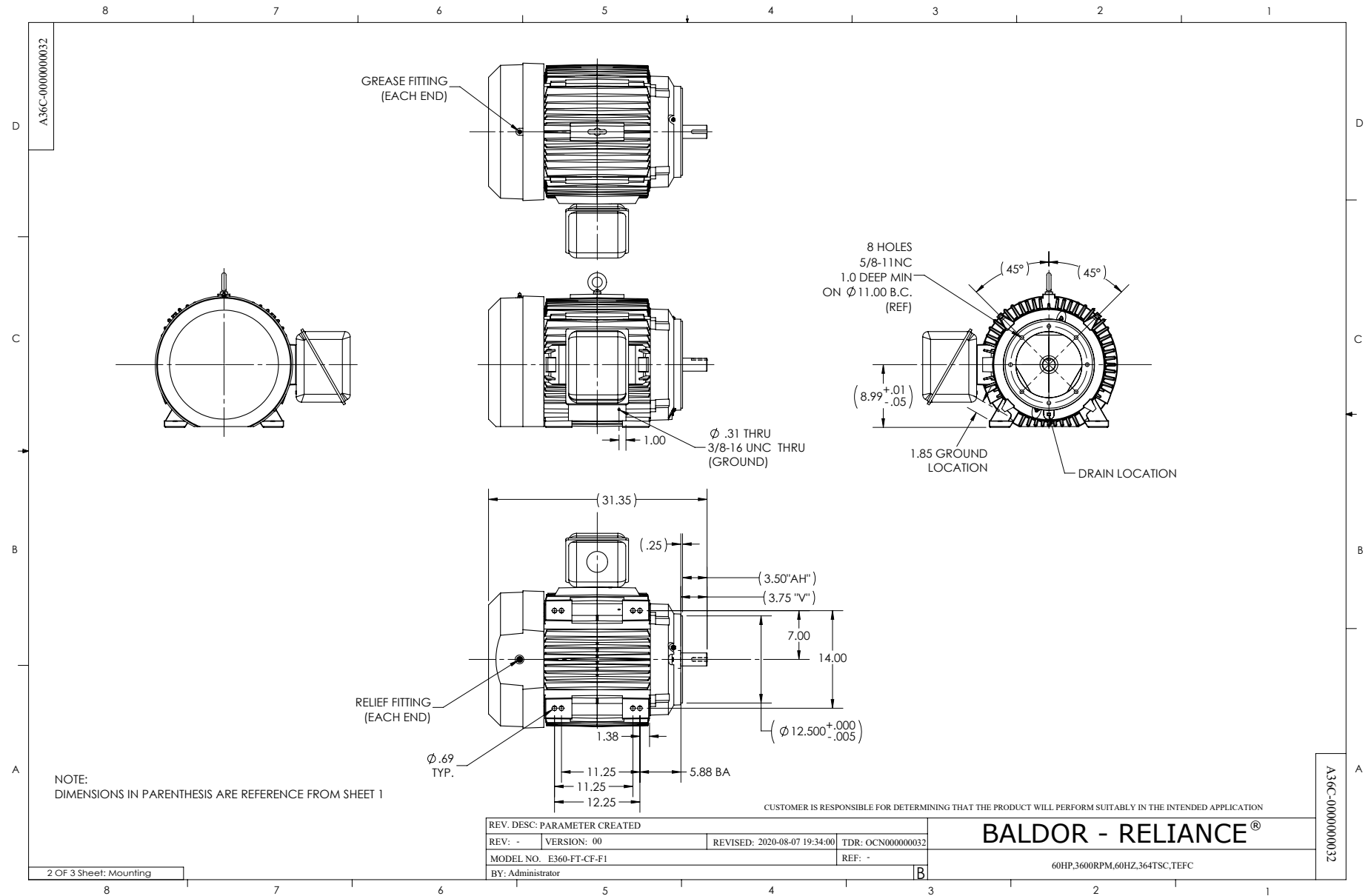
Typical performance - not guaranteed values.

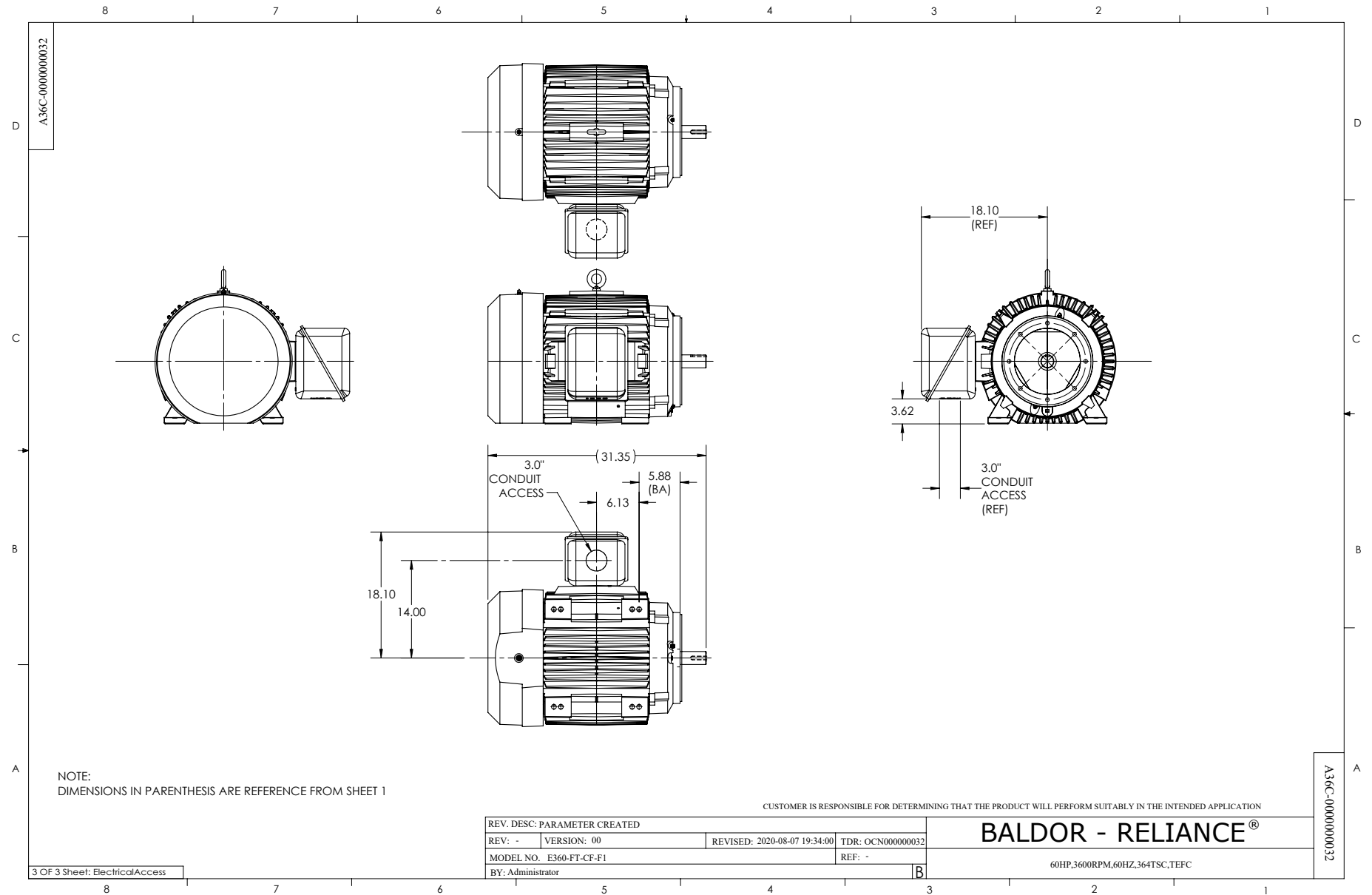
60 HP 3 PH 60 HZ 3560 RPM 460 V A3656M

TORQUES (LB-FT): PO=323 PU=132 LR=178 LRA=435



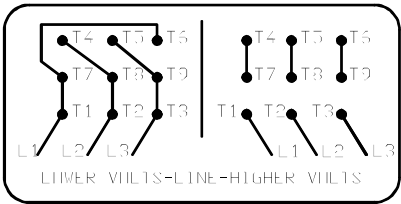
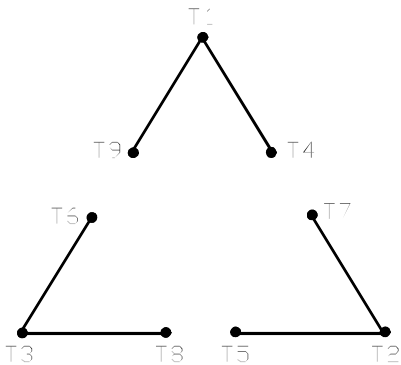






416820-002

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
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CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
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