

ABB BALDOR RELIANCE III

Customer information packet

CPX36566T

50HP, 1185RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	TEFC
Frame	365T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	50.000 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	CSA UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	124.000 A @ 230.0 V 132.000 A @ 208.0 V 62.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	62.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4262
Layout	617428-024
Eff. date	05-31-2023
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	10-03-2022

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	A3668M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.48 IN
Power Factor	81
Product Family	General Industrial
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	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP3140L												
SPEC NO.	A36-8078-4262			CAT.NO.		CPX36566T					FRAME	365T
HP	50	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	1185	AMPS	124/62		HZ	60	AMB	40	SF	1.00		
DRIVE END BEARING	65BC03J30X		DUTY	CONT	INSUL.CLASS			F				
OPP D.E. BEARING	65BC03J30X		ENCL	TEFC	CODE	G						
SF	1.15	WK2	18.71	MAG CUR	44/22		RPM MAX	1800				
CT HZ	6-60	VT HZ	0-60	CHP HZ	60-90		NEMA-NOM-EFF			94.1		
SER.NO.	SUIT FOR 55C AMB AT 1.00 SF							IP66				
					MOTOR WEIGHT		908					

000692000FX



000613006PC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	E F G	
OPERATING TEMP CODE	T3C	

NP2496L	
POLYREX EM	

Parts List

Part number	Description	Quantity
SA407922	SA A36-8078-4262	1.000 ea
RA399439	RA A36-8078-4262	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
NP3140L	INVERTER DUTY, SS, CC, CSA-C US, CSA EEV	1.000 ea
000692000JF	CAUTION LABEL TO PREVENT IGNITION	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
000692000FX	UL LISTED LOGO LABEL 2.53 X 0.75 X .018	1.000 ea
000613006PC	N/P U/L (REL QTY 500)	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
609158001B	SLGR - 360	1.000 ea
603284001S	SLGR - 360	1.000 ea
087793060DM	BRKT STD 313 E360 FCXP W/ CL.II GRP E &	1.000 ea
415072001B	CLAMP	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
415030051AX	BUSH - 360	1.000 ea
078559001A	+FANCV - 360	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
702676001C	FAN 360	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018018CK	HHCS 3/8-16X2-1/4 PLTD.	2.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
604923009R	SLGR - 360	1.000 ea
410700004F	WSHR	1.000 ea
034017016AB	LCKW 1/2" PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
032130020DB	HSHCS 1/2-13X2-1/2 PLTD.	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	2.000 ea
034530056AC	P/NIP 1/8X7L GALV-365	1.000 ea
032620012HD	HSSS 8-32X3/8 304S.S.	2.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea

034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
087793060DM	BRKT STD 313 E360 FCXP W/ CL.II GRP E &	1.000 ea
032018018CK	HHCS 3/8-16X2-1/4 PLTD.	2.000 ea
604923009R	SLGR - 360	1.000 ea
034017016AB	LCKW 1/2" PLATED	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	2.000 ea
032620012HD	HSSS 8-32X3/8 304S.S.	2.000 ea
034530020AB	P/NIP 1/8X2-1/2 PLTED	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415030051AX	BUSH - 360	1.000 ea
032130020DB	HSHCS 1/2-13X2-1/2 PLTD.	4.000 ea
073646000E	C/B 320 WA073646000 KB	1.000 ea
064069000A	C/BC320/360 X 064069000B	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018014DK	HHCS 1/2-13X1-3/4 PLTD	4.000 ea
063916001DE	+P/NIP 3X2-5/8 DIMPL-360	1.000 ea
034017016AB	LCKW 1/2" PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000103A	T/LUG #14AWG-#4AWG W/HOLE FOR .250 BOLT	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
032018004AM	HHCS 1/4-20X1/2PLTD GREN	1.000 ea
034036012AB	CKW EXTERNAL TOOTH 1/4"	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025G05	WILKOFAS, 789.227, MED. GRAY CHAR. MET.	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	8.000 ea
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 ea
032509020C	CARRIAGE BOLT - 360	3.000 ea

AC Induction Motor performance data

Record #95973 - Typical performance - not guaranteed values

Winding	A36WG4262
Type	A3668M
Enclosure	TEFC

Nameplate data

Rated Output	50
Volts	230 / 460
Full Load Amps	124 / 62
R.P.M.	1185
Hz	60
Phase	3
KVA Code	G
Service Factor (S.F.)	1
NEMA Nom. Eff.	94.1
Power Factor	81
Duty	CONT
S.F. Amps	

460 V. 60 Hz:

High Voltage Connection

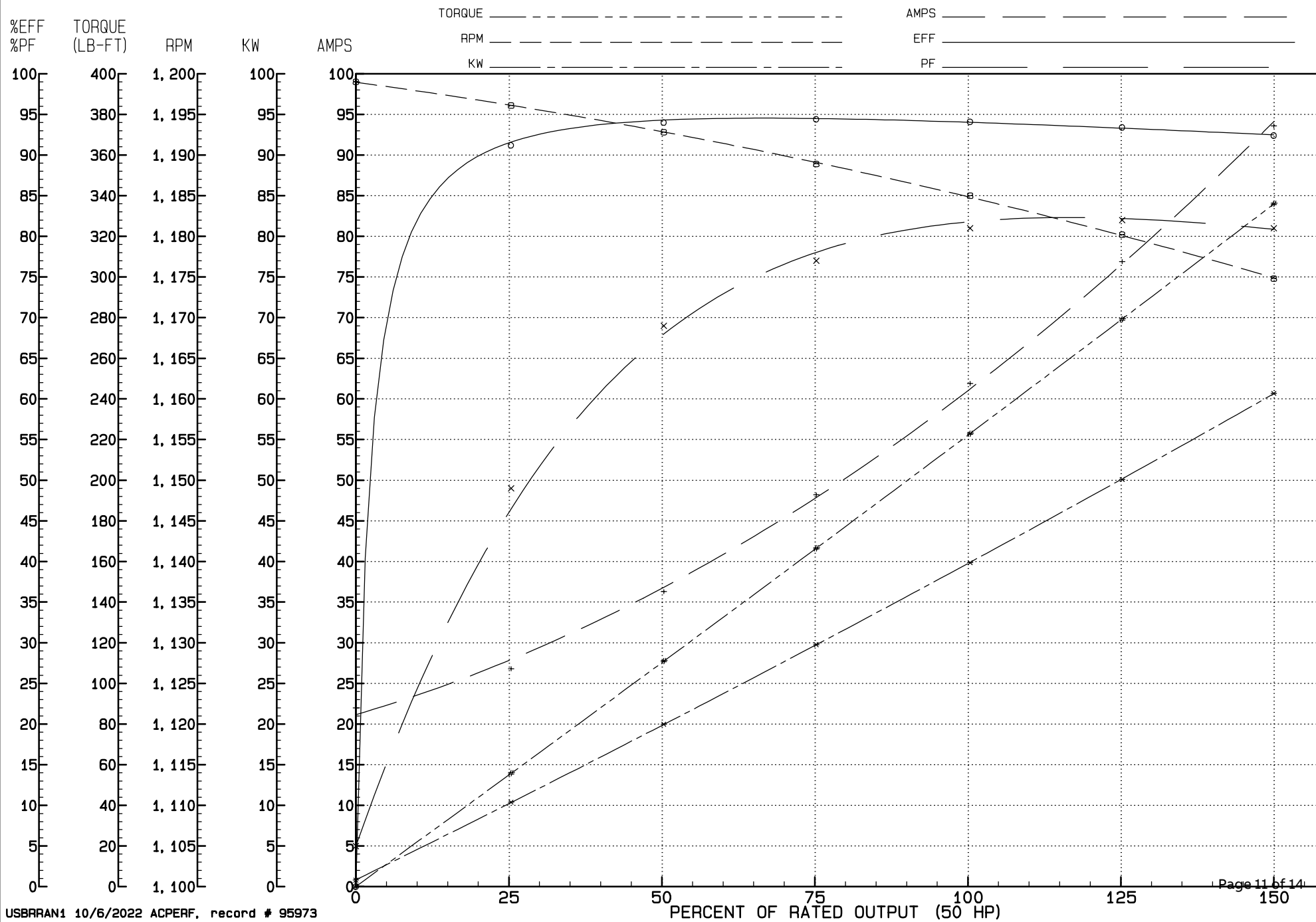
Full Load Torque	222.9 LB-FT
Start Configuration	direct on line
Breakdown Torque	540 LB-FT
Pull-up Torque	319 LB-FT
Locked-rotor Torque	394 LB-FT
Starting Current	366 A
No-load Current	22
Line-line Res. @ 25°C	0.11998 Ω
Temp. Rise @ Rated Load	64°C
Temp. Rise @ S.F. Load	0°C
Locked-rotor Power Factor	28
Rotor inertia	22 lb-ft ²

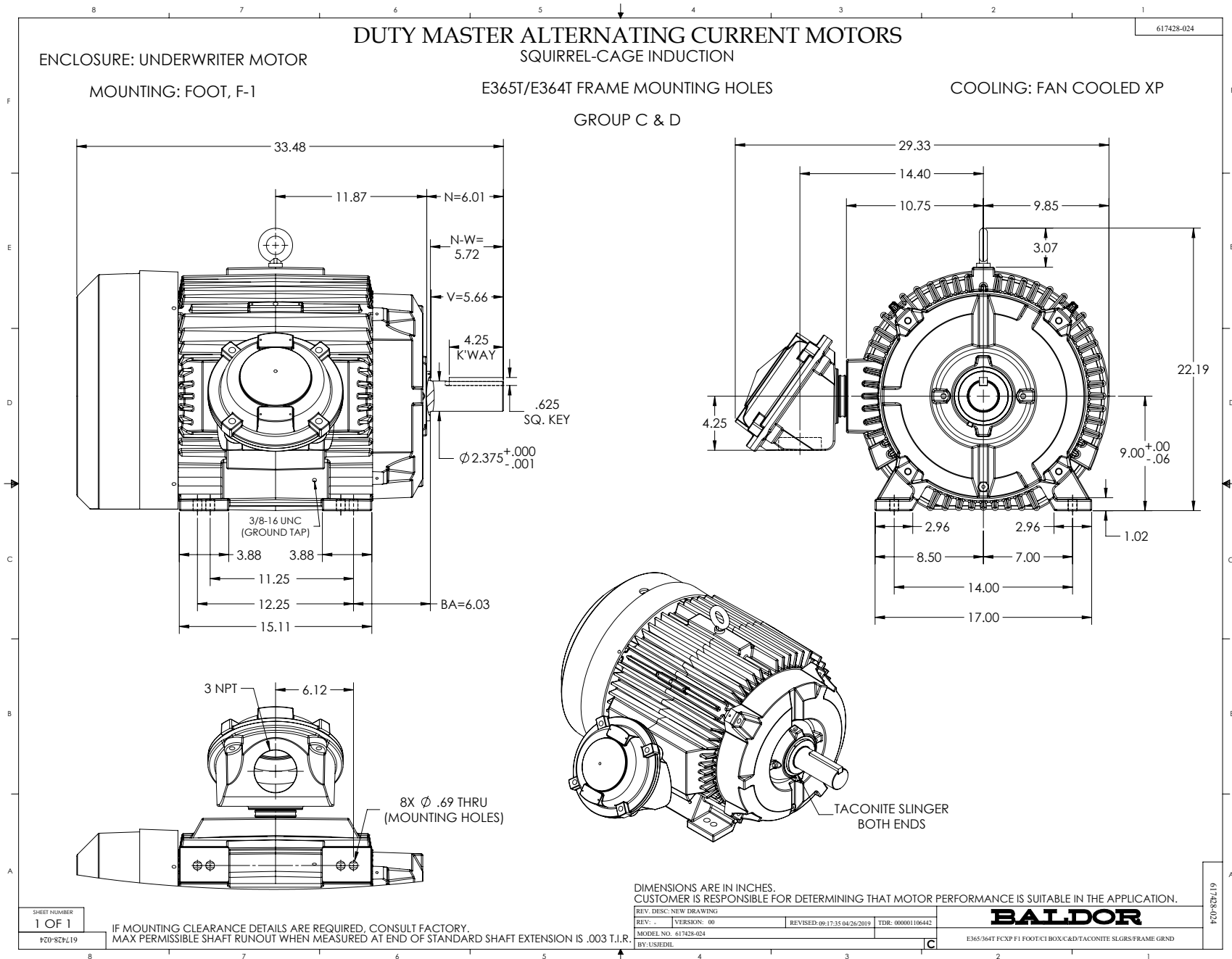
Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	49	69	77	81	82	81	0
Efficiency	0	91.2	94	94.4	94.1	93.4	92.4	0
Speed	1199	1196.1	1192.8	1188.9	1185	1180.2	1174.8	0
Line amperes	22	26.8	36.3	48.2	61.9	76.9	93.6	0

50 HP 3 PH 60 HZ 1185 RPM 460 V A3668M

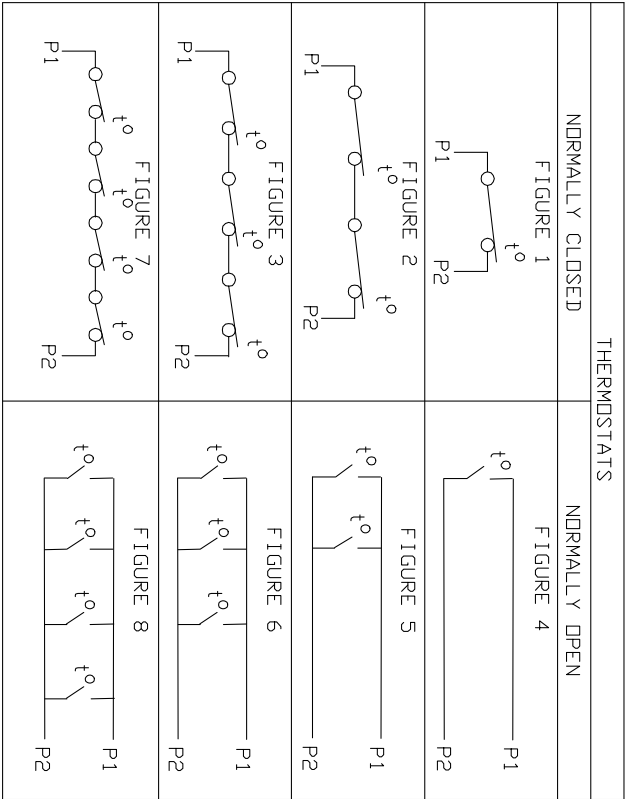
TORQUES (LB-FT): P0=540.00 PU=319.00 LR=394.00 LRA=366.00





CONNECTION DIAGRAM
ACCESSORIES

MOTOR WINDING THERMOSTATS		
CONTACTS _____ @ _____ °C		
FIGURE NUMBER _____		
CONTACT RATING		
VOLTS	CONTINUOUS AMPERES	INRUSH AMPERES
110-120	3.0	30
220-240	1.5	15
440-480	0.75	7.5
550-600	0.60	6.0



CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

418174-006

418174-006

REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000570390
FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

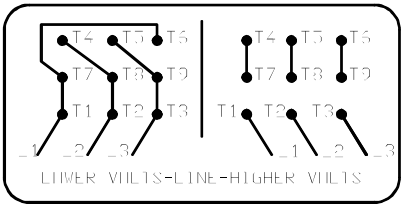
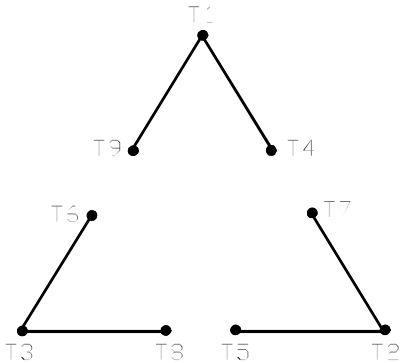
BALDOR

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

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