ABB BALDOR RELIANCE

Customer information packet

CPX21146T

10HP, 1765//1465RPM, 3PH, 60HZ, 215T, XPFC, F1
Class - CLI GP C,D; CLII GP E,F,G
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/1/2026 7:00:36 PM

Specifications

Enclosure	XPFC
Frame	215T
Frame Material	Iron
Frequency	50.00 Hz
	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	10.000 HP @ 60 HZ
	7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	25.000 A @ 230.0 V
	23.200 A @ 190.0 V
	12.500 A @ 460.0 V
	11.600 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGX598
Layout	07LY-000-019
Eff. date	12-04-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-20-2019

Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.02 IN
Power Factor	81
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2033XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	07-0000-0020			**INV.TYPE**	PWM						
CAT.NO.	CPX21146T			**C HP FR**	60	**C HP TO**	90				
HP	10//7.5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	25/12.5//23.2/11.6		**MAG CUR**	5.6							
RPM	1765//1465		**MX RPM**	2700							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91.7				
SER.F.	1.00	**DES**	A	**SL HZ**	1.2	**WK2**	1.18				
FRAME	215T	**RATING**	40C AMB-CONT								
BLANK	55C AMB AT 1.00 SF SINEWAVE										
	NEMA MG-1 PART 5, IP55			1.15 SF SINEWAVE							

Parts List

Part number	Description	Quantity
SA366397	SA 07-0000-0020	1.000 ea
RA355823	RA 07-0000-0020	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
NP2033XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1081F	ALUM XP CAUTION LABEL (FS PLANT ONLY-	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
07FH1003A05G	FAN HOUSING 307 EXPLOSION PROOF W/ GREAS	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	4.000 ea
37FN3002B01	EXFN, PLASTIC, 7.50 OD, 1.155 ID	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
07EP1707A22G	FRONT ENDPLATE EXPLOSION PROOF(GROUP C &	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HA2009A25	SLINGER, FOR GROUP E MOTORS - 206 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
07EP1709A09G	PUEP X-PROOF W/LOK'D BRG. GP-E (GREY)	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HA2009A56	SLINGER, FOR GROUP E MOTORS - 307 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	1.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea

MG1500Y02	WILKOPON PRIMER YELLOW	0.022 ga
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
07CB1000A12G	CONDUIT BOX, 1.88 SQ MTG PATTERN & 1.00	1.000 ea
10XN3118A16	5/16-18X1 HEX HD CAP	4.000 ea
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
07CB1502A01G	CONDUIT BOX LID MACH (DUCTILE IRON) GRAY	1.000 ea
84XN2520J16	1/4-20 X 1 SOC HD CAP SCREW	4.000 ea
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.022 ga
07PA1011	PKG GRP, 07 CAST IRON PK1181	1.000 ea
10XL3807A28	3/8-7 X 1 3/4" LAG SCREW	2.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt

AC Induction Motor Performance Data
Record # 73683
Typical performance - not guaranteed values

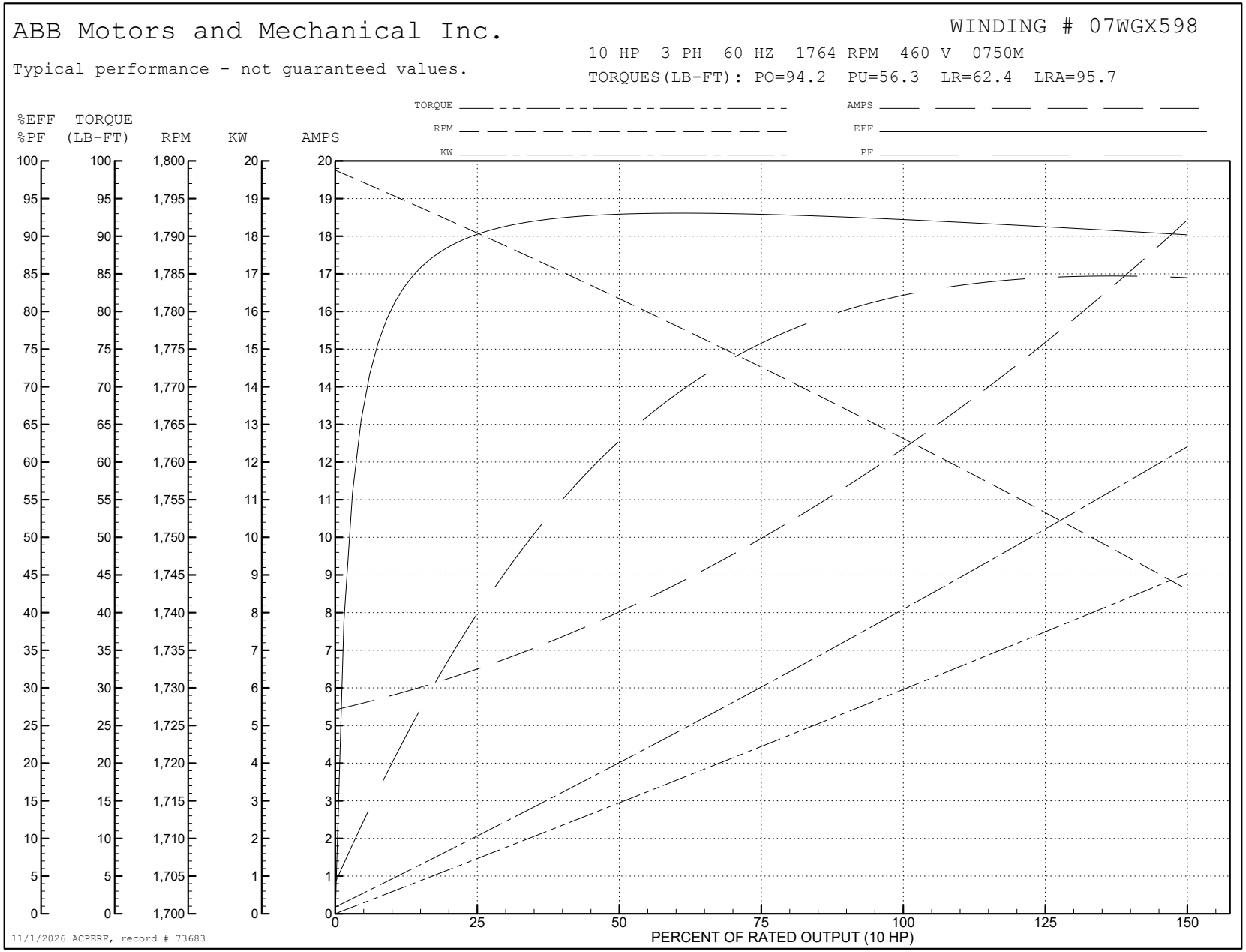
Winding: 07WGX598-R015	**Type:** 0750M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			10//7.5
Volts			230/460//190/380
Full Load Amps			25/12.5//23.2/11.6
R.P.M.			1765//1465
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	81
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	29.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	94.2 LB-FT
Pull-up Torque	56.3 LB-FT
Locked-rotor Torque	62.4 LB-FT
Starting Current	95.7 A
No-load Current	5.6 A
Line-line Res. @ 25ºC	0.866 Ω
Temp. Rise @ Rated Load	55°C
Locked-rotor Power Factor	35.2
Rotor inertia	1.23 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	64	76	81	84	85
Efficiency	89.8	93.5	92.5	92.2	91.3	90.1
Speed	1790	1782	1772	1764	1753	1743
Line amperes	6.28	7.9	10	12.5	15.3	18.3


ABB Motors and Mechanical Inc.
WINDING # 07WGX598
10 HP 3 PH 60 HZ 1764 RPM 460 V 0750M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=94.2 PU=56.3 LR=62.4 LRA=95.7
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/1/2026 ACPERF, record # 73683

AC Induction Motor Performance Data
Record # 81617
Typical performance - not guaranteed values

Winding: 07WGX598-R015	**Type:** 0750M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			10//7.5
Volts			230/460//190/380
Full Load Amps			25/12.5//23.2/11.6
R.P.M.			1765//1465
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	81
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	26.76 LB-FT
Start Configuration	direct on line
Breakdown Torque	90.02 LB-FT
Pull-up Torque	58.13 LB-FT
Locked-rotor Torque	64.43 LB-FT
Starting Current	92.9 A
No-load Current	5.49 A
Line-line Res. @ 25ºC	0.866 Ω
Temp. Rise @ Rated Load	48°C
Locked-rotor Power Factor	39.2
Rotor inertia	1.23 lb-ft²

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	39	61	74	80	83	85
Efficiency	89.3	93.2	92.2	91.8	90.8	89.6
Speed	1491	1484	1475	1468	1458	1449
Line amperes	6.07	7.46	9.35	11.55	14.06	16.77

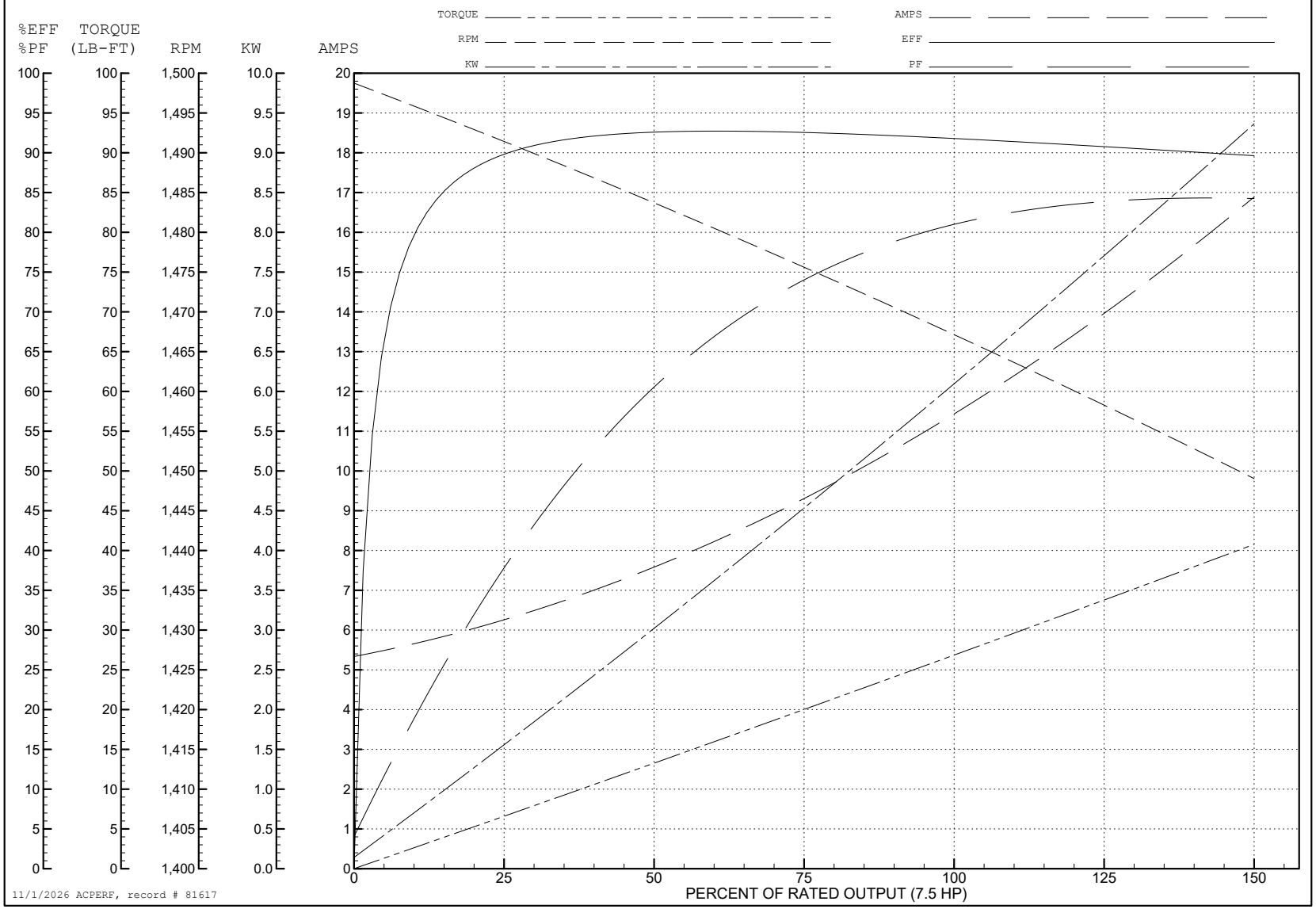
ABB Motors and Mechanical Inc.

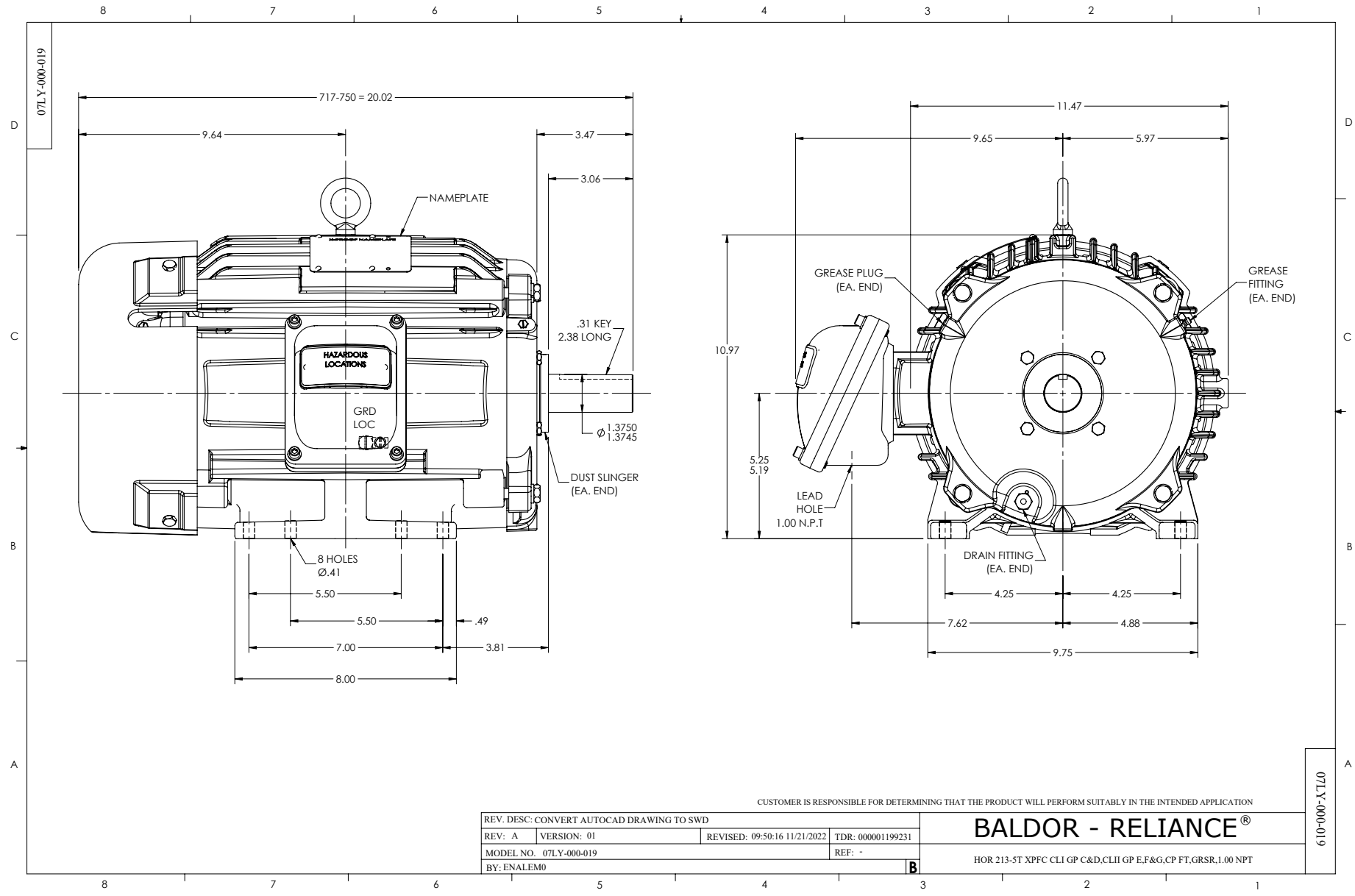
WINDING # 07WGX598

7.5 HP 3 PH 50 HZ 1468 RPM 380 V 0750M

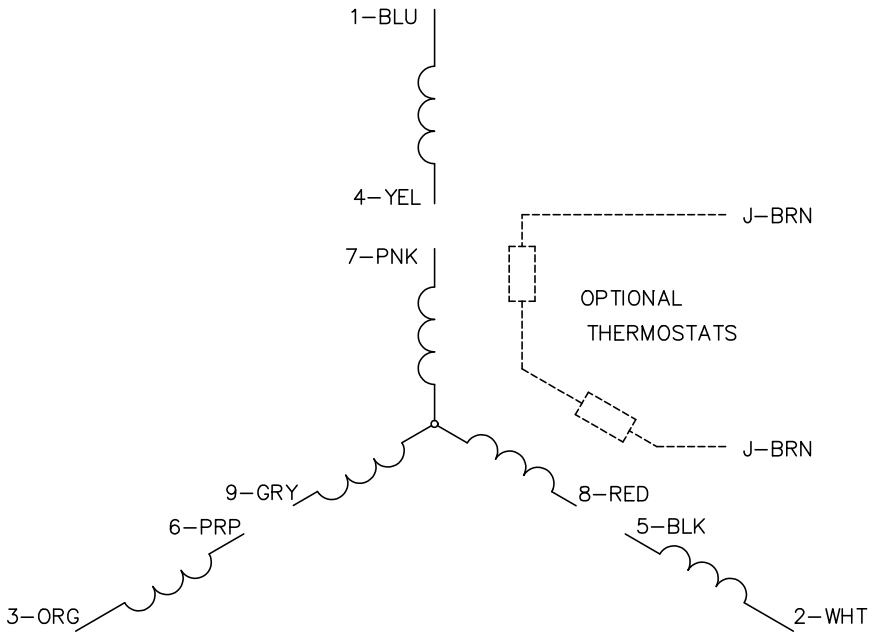
Typical performance - not guaranteed values.

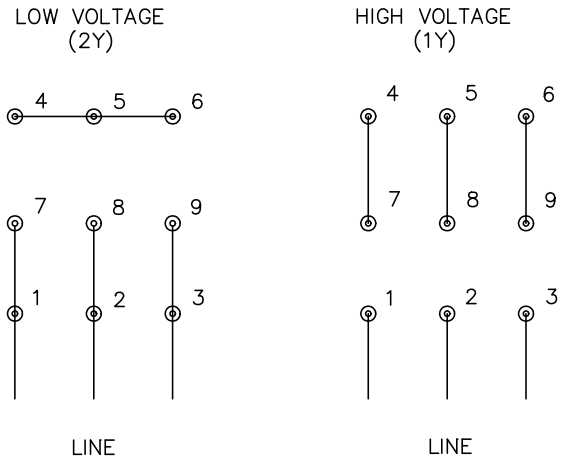
TORQUES(LB-FT): PO=90.02 PU=58.13 LR=64.43 LRA=92.9




07LY-000-019
717-750 = 20.02
9.64
3.47
3.06
NAMEPLATE
.31 KEY
2.38 LONG
HAZARDOUS LOCATIONS
GRD LOC
Ø 1.3750
1.3745
DUST SLINGER
(EA. END)
8 HOLES
Ø.41
5.50
5.50
.49
7.00
3.81
8.00
11.47
9.65
5.97
GREASE PLUG
(EA. END)
GREASE FITTING
(EA. END)
10.97
5.25
5.19
LEAD HOLE
1.00 N.P.T
DRAIN FITTING
(EA. END)
4.25
4.25
7.62
4.88
9.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: A
VERSION: 01
REVISED: 09:50:16 11/21/2022
TDR: 000001199231
MODEL NO. 07LY-000-019
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5T XPFC CLI GP C&D,CLII GP E,F&G,CP FT,GRSR,1.00 NPT
07LY-000-019

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS