

ABB BALDOR RELIANCE III

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

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					

AC Induction Motor Performance Data

Record # 73683

Typical performance - not guaranteed values

Winding: 07WGX598-R015				Type: 0750M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10//7.5		Full Load Torque		29.7 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		25/12.5//23.2/11.6		Breakdown Torque		94.2 LB-FT	
R.P.M.		1765//1465		Pull-up Torque		56.3 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		J	
Service Factor (S.F.)		1		No-load Current		5.6 A	
NEMA Nom. Eff.		91.7		Power Factor		81	
Rating - Duty		40C		AMB-CONT			
				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

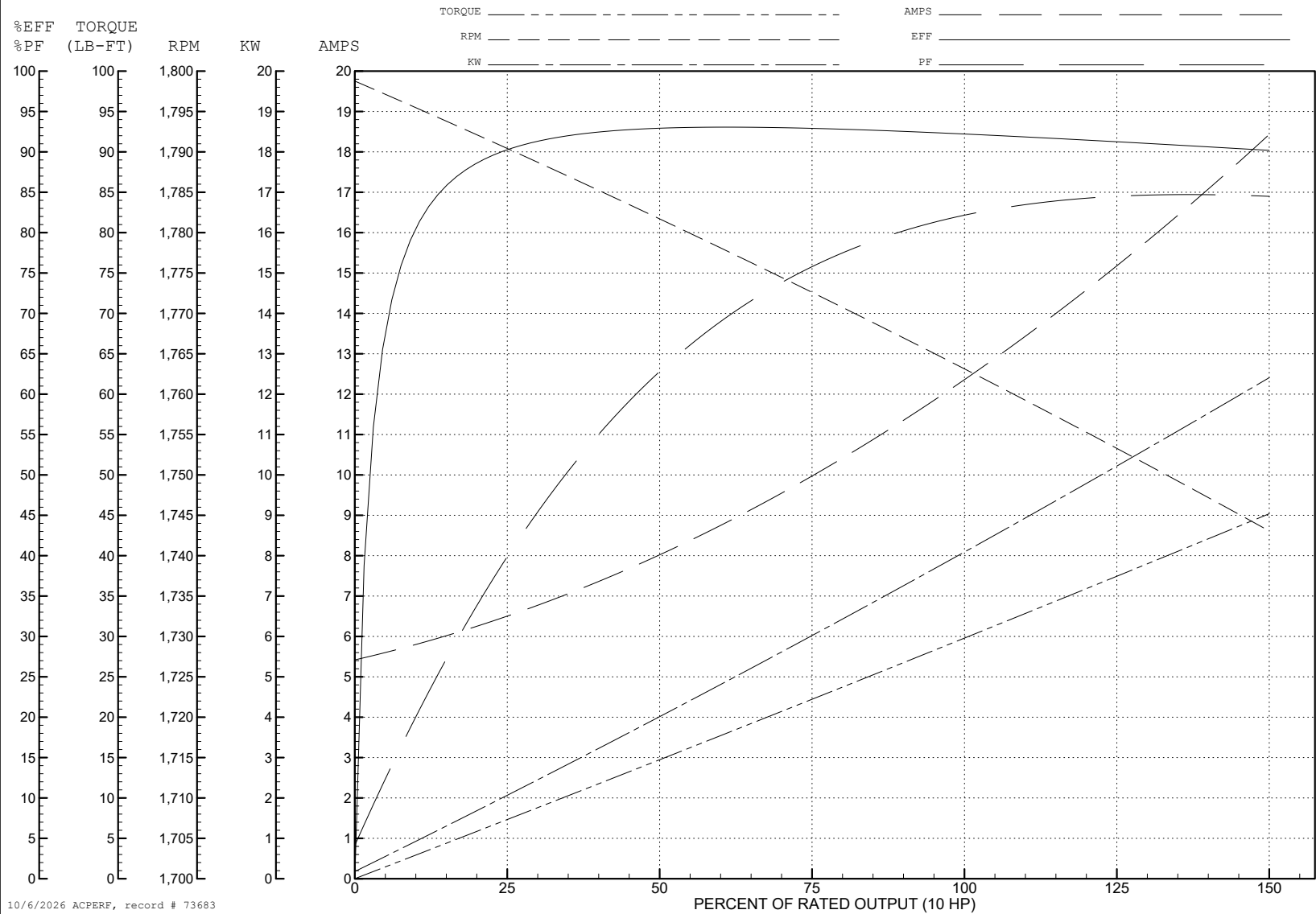
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WINDING # 07WGX598

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1764 RPM 460 V 0750M

TORQUES (LB-FT) : PO=94.2 PU=56.3 LR=62.4 LRA=95.7



AC Induction Motor Performance Data

Record # 81617

Typical performance - not guaranteed values

Winding: 07WGX598-R015				Type: 0750M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		10//7.5		Full Load Torque		26.76 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		25/12.5//23.2/11.6		Breakdown Torque		90.02 LB-FT	
R.P.M.		1765//1465		Pull-up Torque		58.13 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		J	
Service Factor (S.F.)		1		No-load Current		5.49 A	
NEMA Nom. Eff.		91.7		Power Factor		81	
Rating - Duty		40C		AMB-CONT			
				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

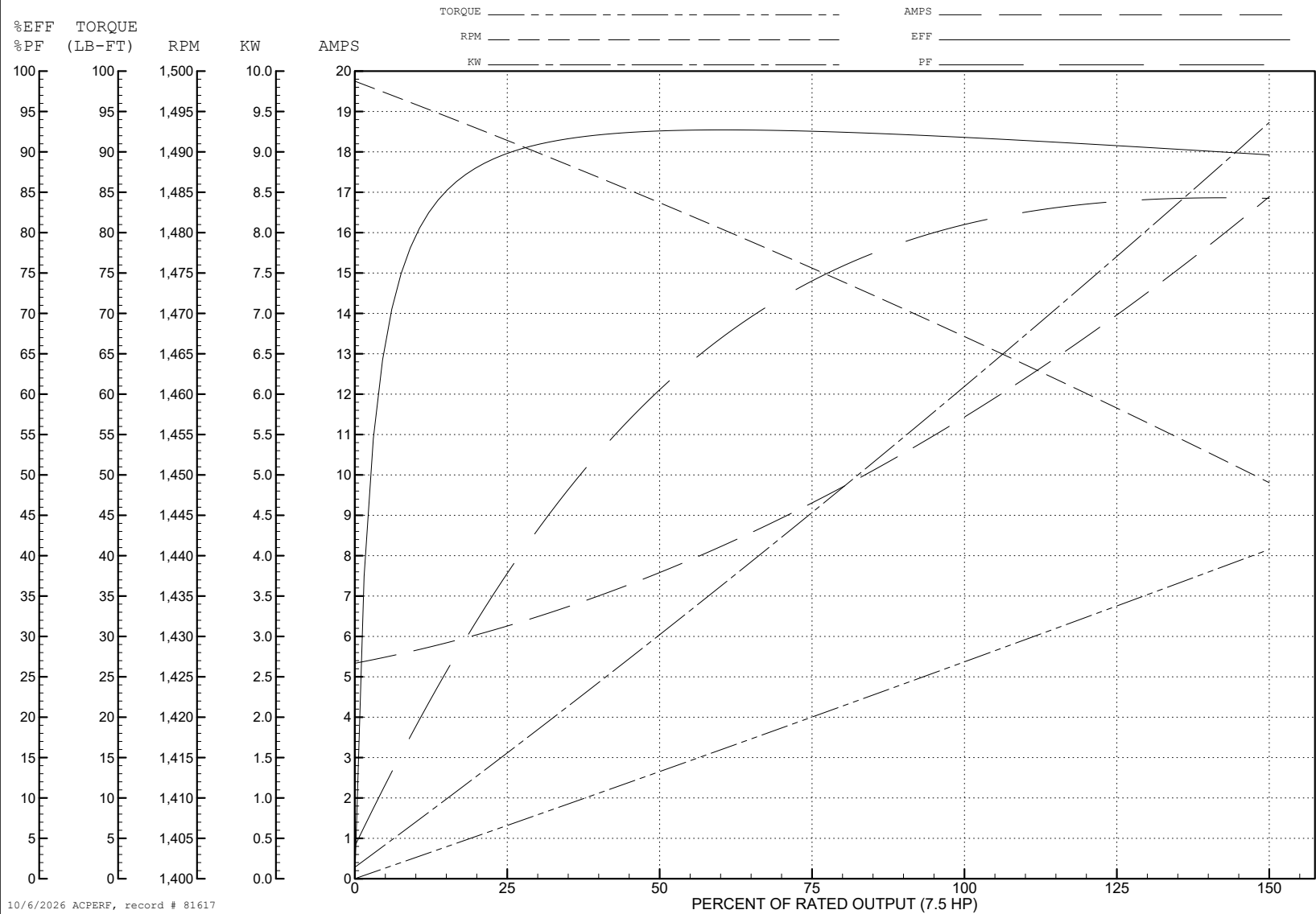
ABB Motors and Mechanical Inc.

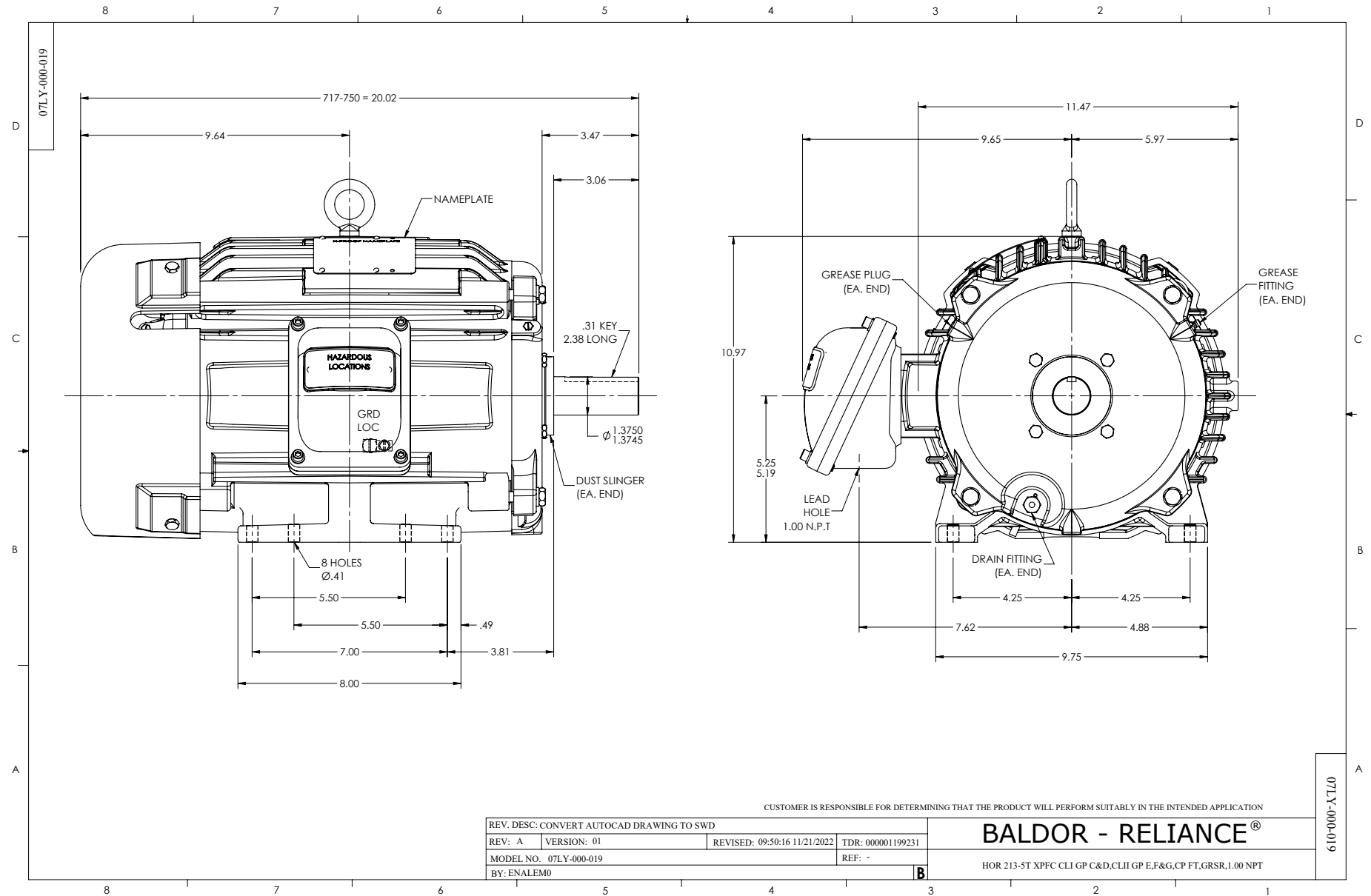
WINDING # 07WGX598

Typical performance - not guaranteed values.

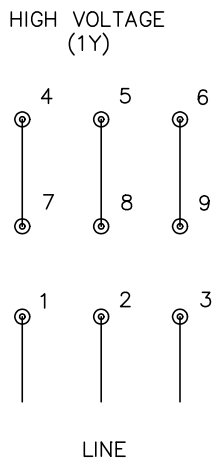
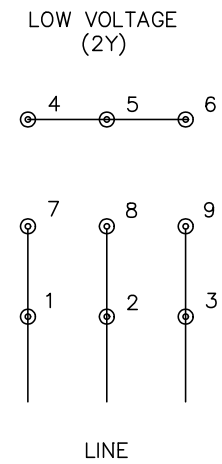
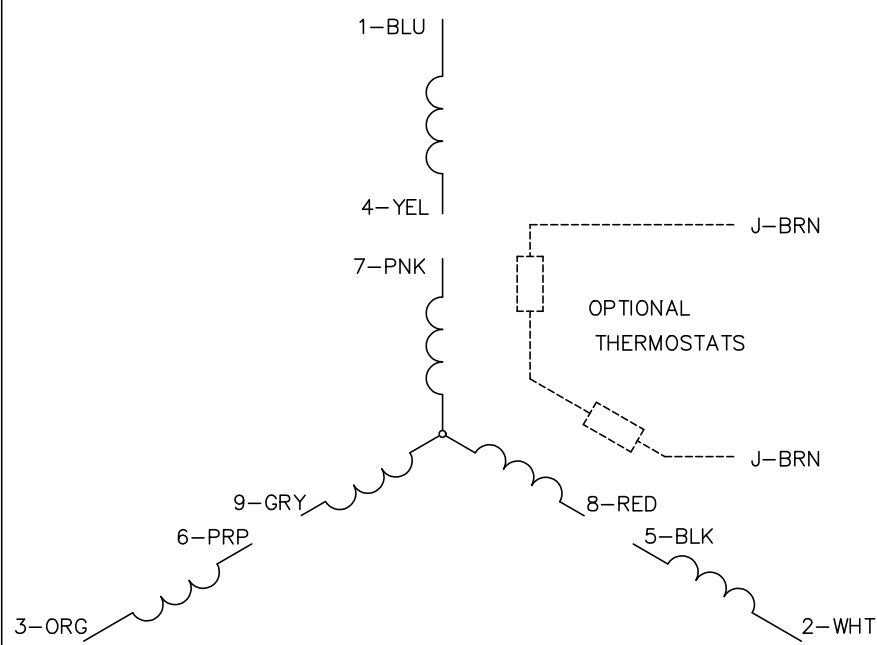
7.5 HP 3 PH 50 HZ 1468 RPM 380 V 0750M

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005