ABB BALDOR RELIANCE

Customer information packet

IDXCM7570T-C

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, XPFC, F
Class - CLI GP C,D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	215TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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	15
Current @ Voltage	12.200 A @ 460.0 V
	24.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	P
Type	AC
Mech. spec.	07J130
Base	
Status	INA/A
Elec. spec.	07WGY179
Layout	07LYJ130
Eff. date	03-08-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-08-2016

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	12.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.77 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP0681XPSLEV												
NO.					**CC**	010A						
S/N					**TEMP CODE**	T3C						
SPEC.	07J130Y179G1				**INV.TYPE**	PWM						
CAT.NO.					**C HP FR**	60	**C HP TO**	90				
HP	10				**CT HZ FROM**	15			**CT HZ TO**	60		
VOLTS	230/460				**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	24.4/12.2			**MAG CUR**	8.8/4.4							
RPM	1760			**MX RPM**	2700							
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	91.7					
SER.F.	1.00	**DES**	B	**SL HZ**	1	**WK2**	1.18					
FRAME	215TC	**RATING**	40C AMB-CONT									
	1.15 SF SINEWAVE											

AC Induction Motor Performance Data
Record # 60174
Typical performance - not guaranteed values

Winding: 07WGY179-R033	**Type:** 0748M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			10
Volts			230/460
Full Load Amps			24.4/12.2
R.P.M.			1760
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	83
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	29.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	80.9 LB-FT
Pull-up Torque	40.2 LB-FT
Locked-rotor Torque	52.6 LB-FT
Starting Current	81 A
No-load Current	4.44 A
Line-line Res. @ 25ºC	1.08 Ω
Temp. Rise @ Rated Load	64°C
Locked-rotor Power Factor	35.1
Rotor inertia	1.18 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	50	71	80	83	85	85
Efficiency	90.3	92.4	92.9	92.3	90.9	89.1
Speed	1791	1782	1774	1763	1751	1737
Line amperes	5.24	7.1	9.42	12.2	15.2	18.7

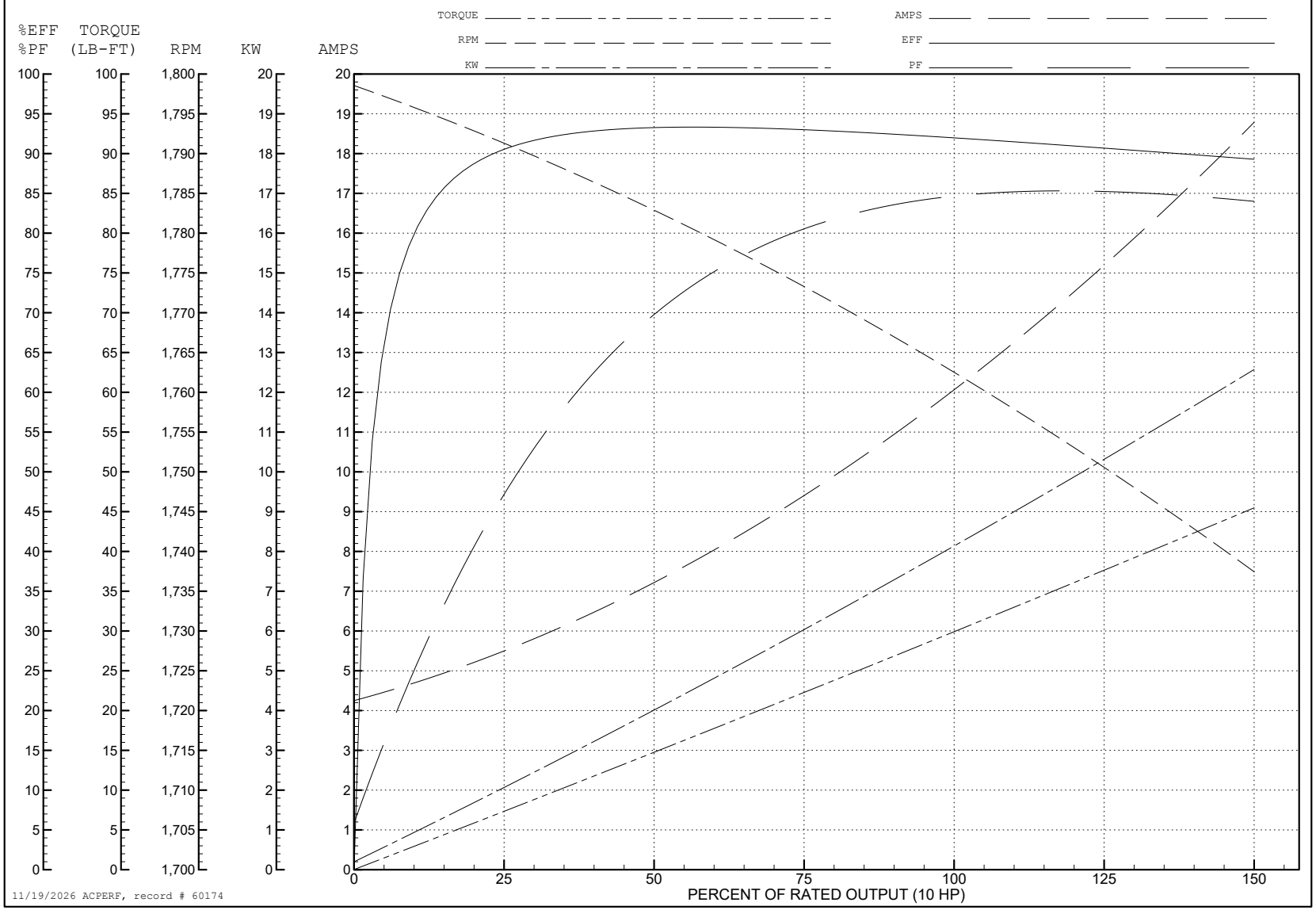
ABB Motors and Mechanical Inc.

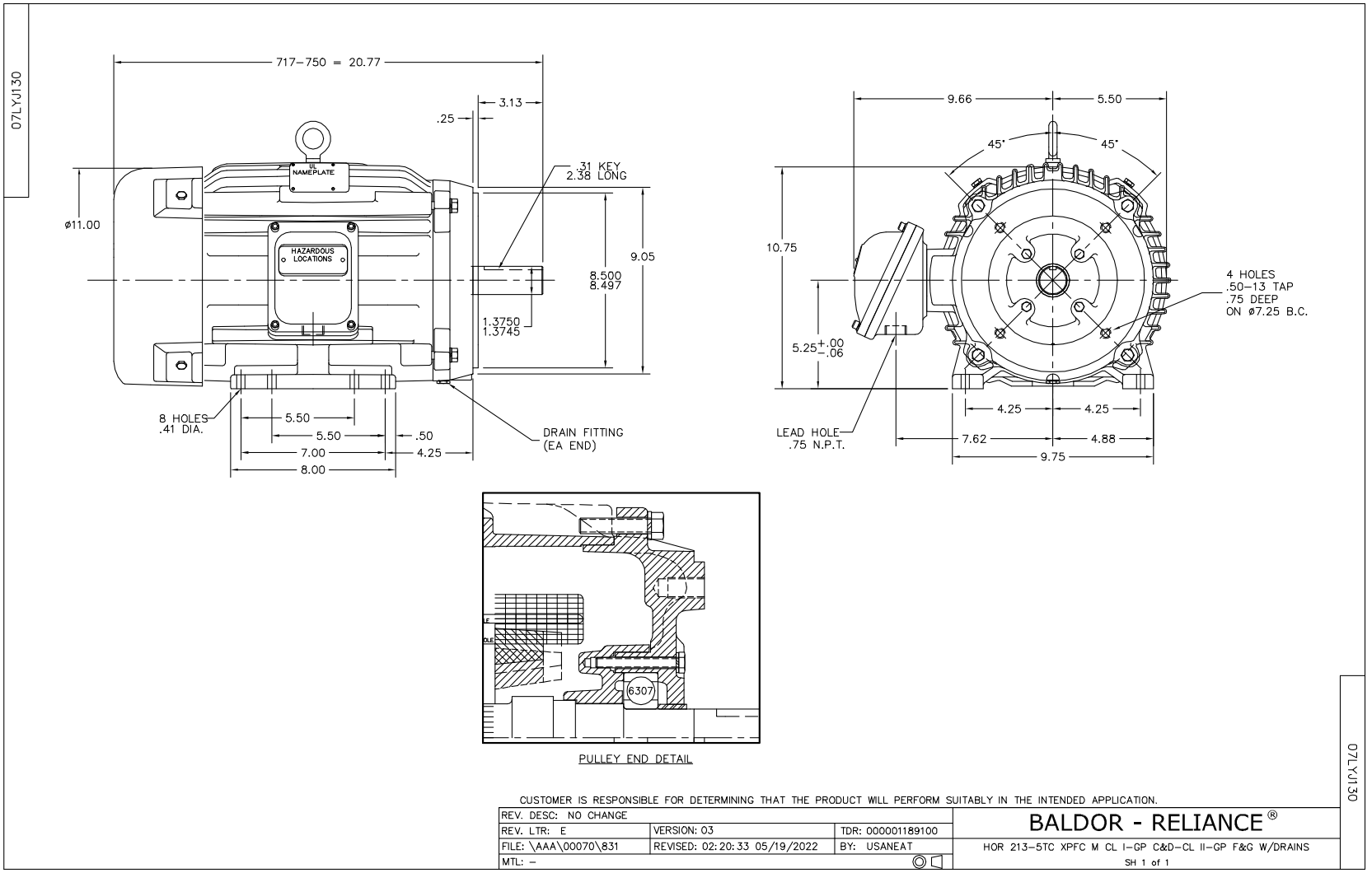
WINDING # 07WGY179

10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M

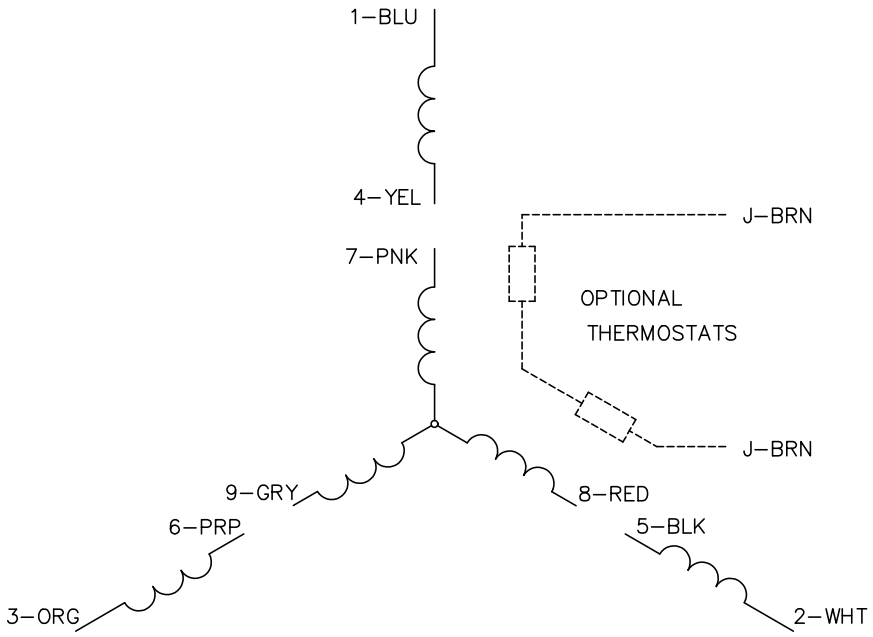
Typical performance - not guaranteed values.

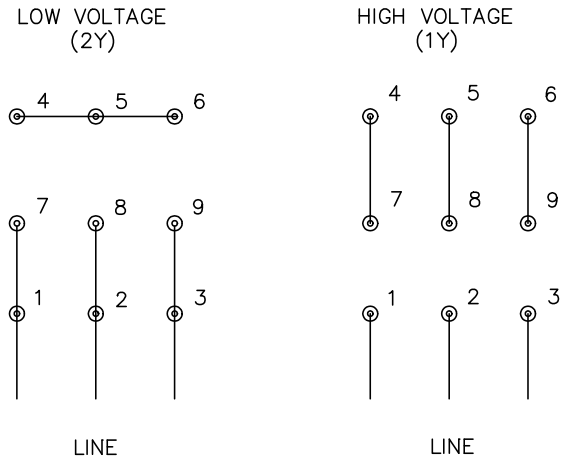
TORQUES(LB-FT): PO=80.9 PU=40.2 LR=52.6 LRA=81




07LYJ130
717–750 = 20.77
3.13
.25
.31 KEY
2.38 LONG
UL NAMEPLATE
ø11.00
HAZARDOUS LOCATIONS
9.05
8.500
8.497
1.3750
1.3745
8 HOLES
.41 DIA.
5.50
5.50
.50
7.00
4.25
8.00
DRAIN FITTING
(EA END)
9.66
5.50
45°
45°
10.75
4 HOLES
.50–13 TAP
.75 DEEP
ON ø7.25 B.C.
5.25 +.00 −.06
LEAD HOLE
.75 N.P.T.
4.25
4.25
7.62
4.88
9.75
6307
PULLEY END DETAIL
07LYJ130
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: NO CHANGE
REV. LTR: E
VERSION: 03
TDR: 000001189100
FILE: \AAA\00070\831
REVISED: 02:20:33 05/19/2022
BY: USANEAT
MTL: –
BALDOR - RELIANCE®
HOR 213–5TC XPFC M CL I–GP C&D–CL II–GP F&G W/DRAINS
SH 1 of 1

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