ABB BALDOR RELIANCE

Customer information packet

DRX281564T

15HP, 1175//985RPM, 3PH, 60HZ, 284T, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	284T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 50 HZ
	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
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	42.000 A @ 230.0 V
	42.000 A @ 208.0 V
	36.000 A @ 190.0 V
	21.000 A @ 460.0 V
	18.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY561
Layout	10LY-000-549
Eff. date	06-11-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	05-30-2019

Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	18.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.61 IN
Power Factor	73
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1175 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

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	10-0000-0768			**INV.TYPE**	PWM						
CAT.NO.	DRX281564T			**C HP FR**	60	**C HP TO**	90				
HP	15//10			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	42/21//36/18		**MAG CUR**	22/11							
RPM	1175//985		**MX RPM**	1800							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91.7				
SER.F.	1.00	**DES**	A	**SL HZ**	1.3	**WK2**	4.9				
FRAME	284T	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE			NEMA MG-1 PT.5,IP55							

AC Induction Motor Performance Data
Record # 67038
Typical performance - not guaranteed values

Winding: 10WGY561-R013	**Type:** 1046M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	66.68 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			42/21	**Breakdown Torque**	213 LB-FT
R.P.M.			1175	**Pull-up Torque**	93.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	114 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	144 A
Service Factor (S.F.)			1	**No-load Current**	12.4 A
NEMA Nom. Eff.	91.7	**Power Factor**	73	**Line-line Res. @ 25ºC**	0.502 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
				Locked-rotor Power Factor	32.9
				Rotor inertia	5.63 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	32	52	65	72	76	78
Efficiency	83	89.4	91.3	91.7	91.4	90.8
Speed	1196	1193	1189	1185	1181	1177
Line amperes	13.2	15.1	17.9	21.3	25.3	29.6

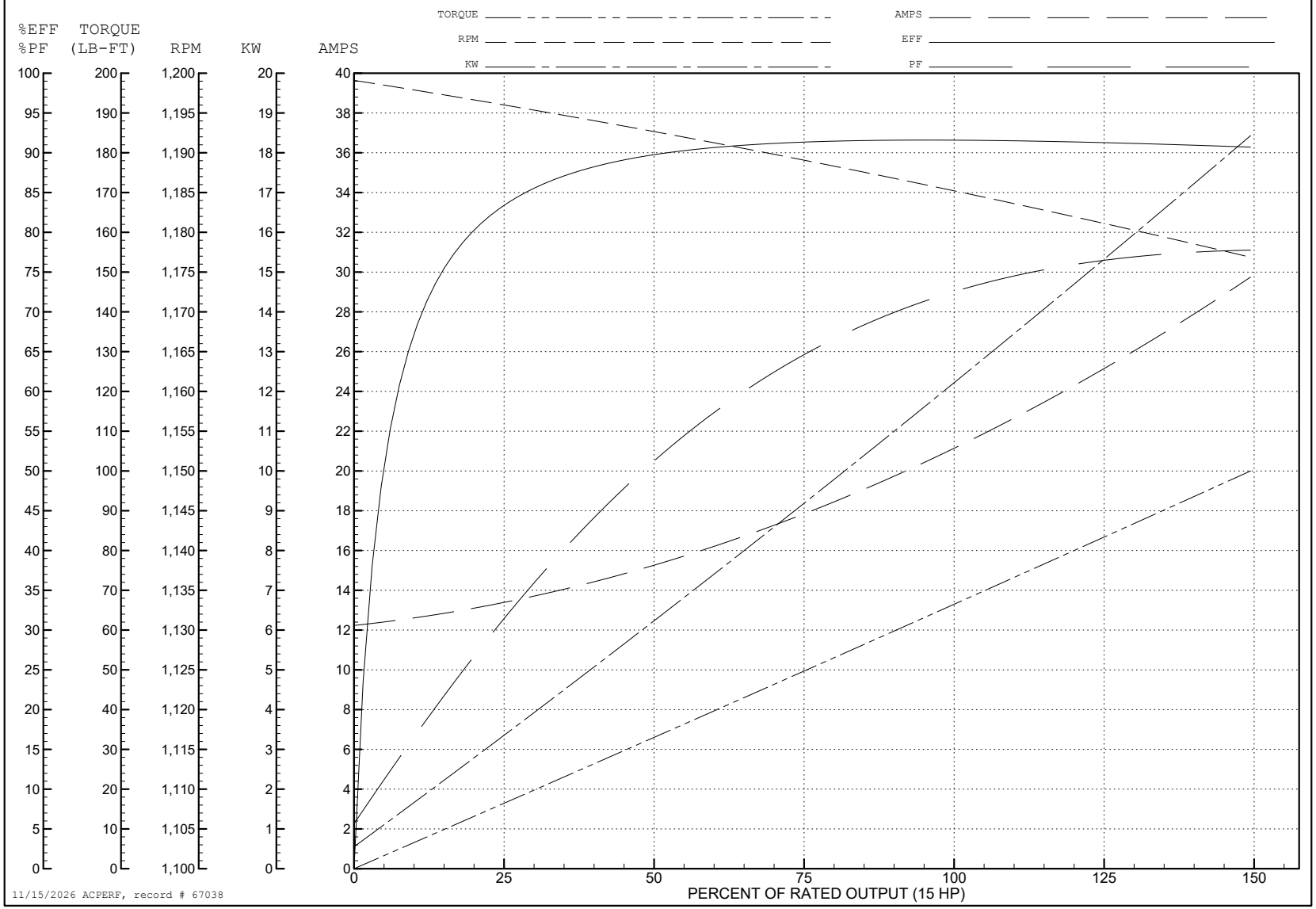
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WINDING # 10WGY561

15 HP 3 PH 60 HZ 1175 RPM 460 V 1046M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=213 PU=93.1 LR=114 LRA=144



AC Induction Motor Performance Data
Record # 75699
Typical performance - not guaranteed values

Winding: 10WGY561-R010	**Type:** 1046M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			15//10	**Full Load Torque**	53.33 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			42/21//36/18	**Breakdown Torque**	205 LB-FT
R.P.M.			1175//985	**Pull-up Torque**	95.7 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	117 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	139 A
Service Factor (S.F.)			1	**No-load Current**	12.06 A
NEMA Nom. Eff.	91.7	**Power Factor**	73	**Line-line Res. @ 25ºC**	0.502 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
				Locked-rotor Power Factor	36.5
				Rotor inertia	5.63 lb-ft²

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	28	46	59	67	72	76
Efficiency	80.7	88.1	90.4	91.1	91	90.5
Speed	997	994	991	988	985	981
Line amperes	12.64	14.01	16.05	18.57	21.57	24.81

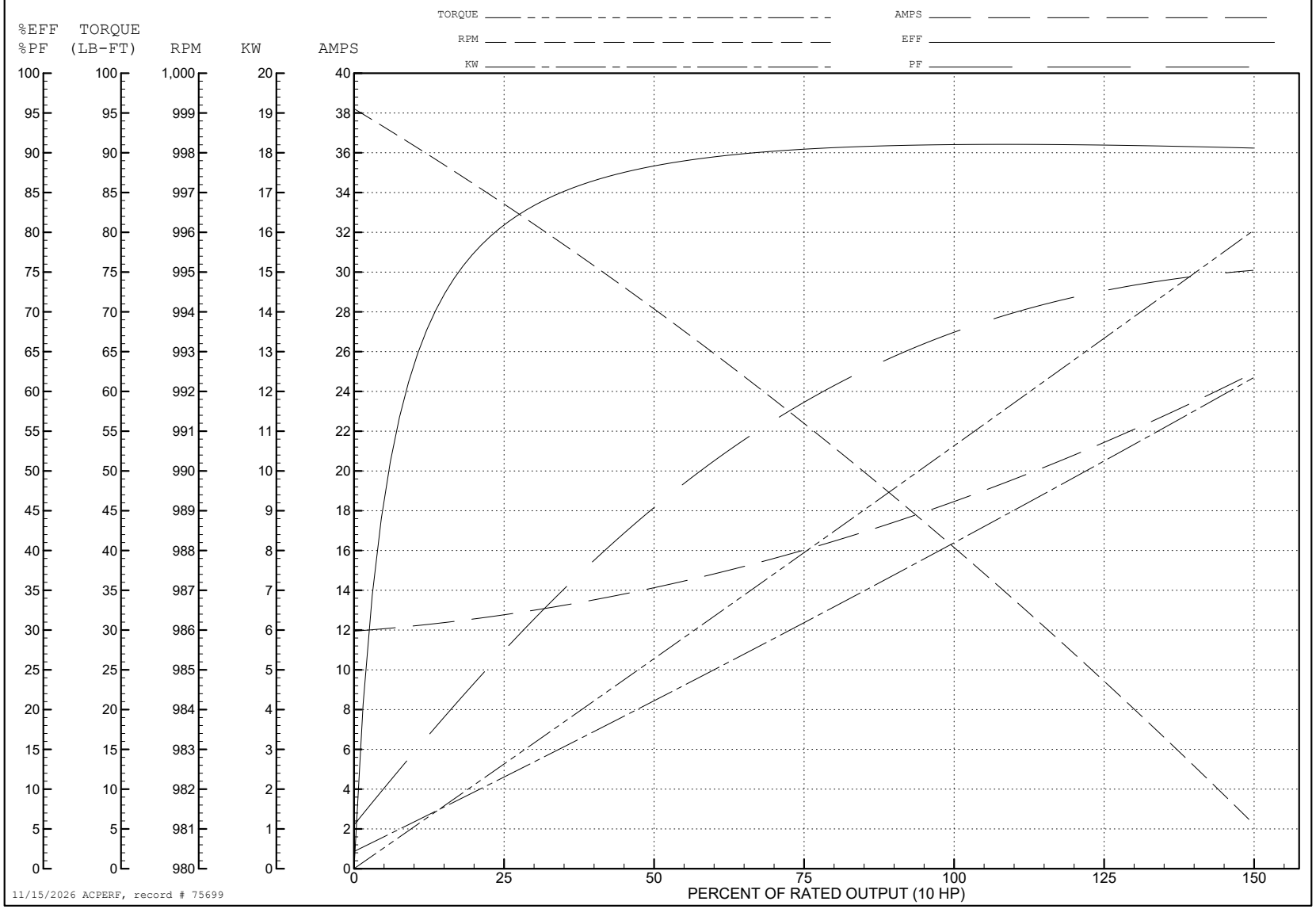
ABB Motors and Mechanical Inc.

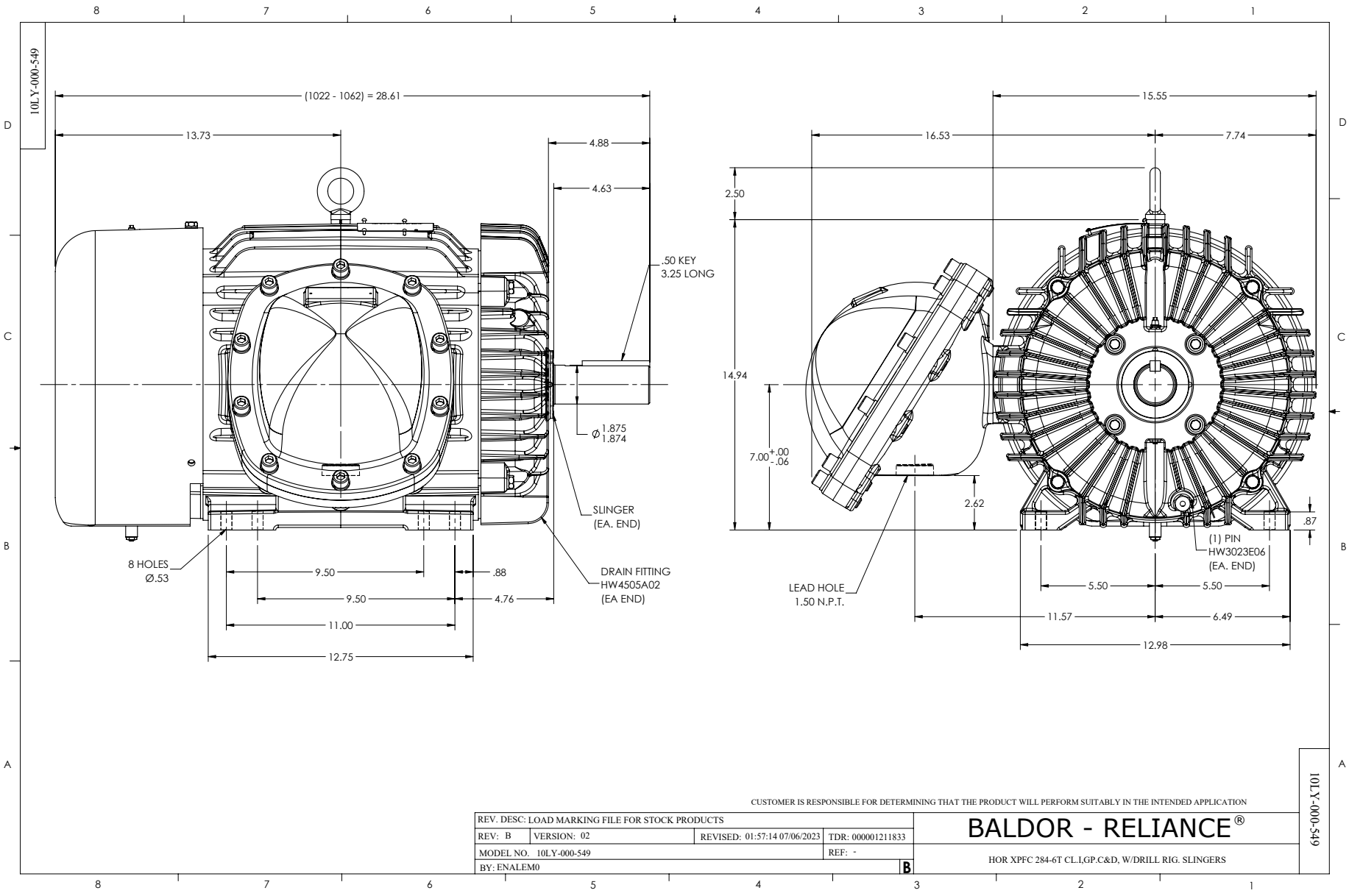
WINDING # 10WGY561

10 HP 3 PH 50 HZ 988 RPM 380 V 1046M

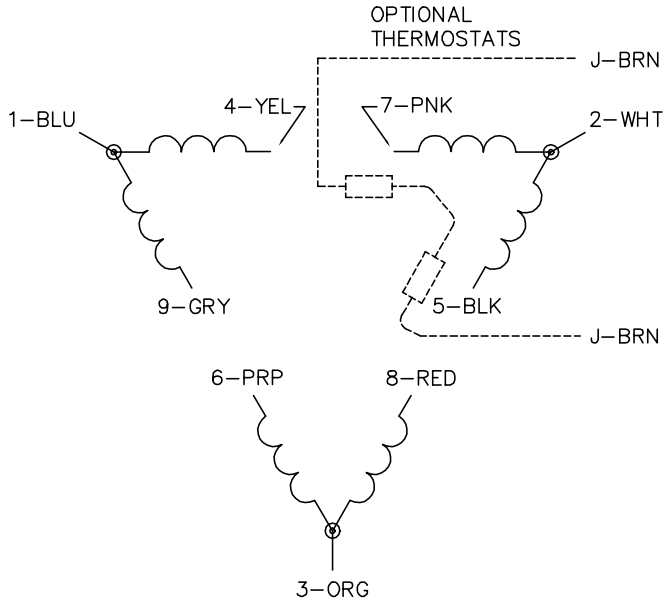
Typical performance - not guaranteed values.

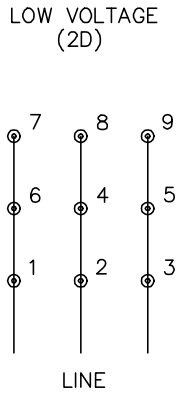
TORQUES(LB-FT): PO=205 PU=95.7 LR=117 LRA=139

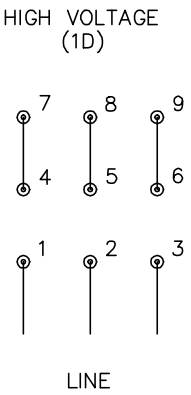



10LY-000-549
(1022 - 1062) = 28.61
13.73
4.88
4.63
.50 KEY
3.25 LONG
Ø 1.875
1.874
SLINGER
(EA. END)
8 HOLES
Ø.53
9.50
.88
9.50
4.76
11.00
12.75
DRAIN FITTING
HW4505A02
(EA END)
15.55
16.53
7.74
2.50
14.94
7.00 +.00 -.06
2.62
.87
(1) PIN
HW3023E06
(EA. END)
LEAD HOLE
1.50 N.P.T.
5.50
5.50
11.57
6.49
12.98
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD MARKING FILE FOR STOCK PRODUCTS
REV: B
VERSION: 02
REVISED: 01:57:14 07/06/2023
TDR: 000001211833
MODEL NO. 10LY-000-549
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR XPFC 284-6T CL.I,GP.C&D, W/DRILL RIG. SLINGERS
10LY-000-549

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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