ABB BALDOR RELIANCE

Customer information packet

CDRX28264T

20HP, 1180//980RPM, 3PH, 60/50HZ, 286TC, XPFC
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	286TC
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	15.000 HP @ 50 HZ
	20.000 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	54.000 A @ 208.0 V
	50.000 A @ 230.0 V
	46.000 A @ 190.0 V
	25.000 A @ 460.0 V
	23.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ033
Layout	10LY-000-133
Eff. date	11-22-2024
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	05-31-2019

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	23.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.61 IN
Power Factor	78
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
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	1180 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.	10-0000-0832			**INV.TYPE**	PWM						
CAT.NO.	CDRX28264T			**C HP FR**	60	**C HP TO**	90				
HP	20//15			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	50/25//46/23		**MAG CUR**	21.4/10.7							
RPM	1180//980		**MX RPM**	1800							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91.7				
SER.F.	1.00	**DES**	B	**SL HZ**	1	**WK2**	6.86				
FRAME	286TC	**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 # 75701
Typical performance - not guaranteed values

Winding: 10WGZ033-R002	**Type:** 1056M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			20//15
Volts			230/460//190/380
Full Load Amps			50/25//46/23
R.P.M.			1180//980
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	78
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	80.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	234 LB-FT
Pull-up Torque	97.19 LB-FT
Locked-rotor Torque	139 LB-FT
Starting Current	142 A
No-load Current	10.54 A
Line-line Res. @ 25ºC	0.501 Ω
Temp. Rise @ Rated Load	45°C
Temp. Rise @ S.F. Load	56°C
Locked-rotor Power Factor	33.7
Rotor inertia	6.86 LB-FT2

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	63	74	79	81	82
Efficiency	87.9	91.8	92.6	92.3	90.8	90.9
Speed	995	991	986	982	977	971
Line amperes	11.71	14.83	18.7	23.4	28.65	34.75

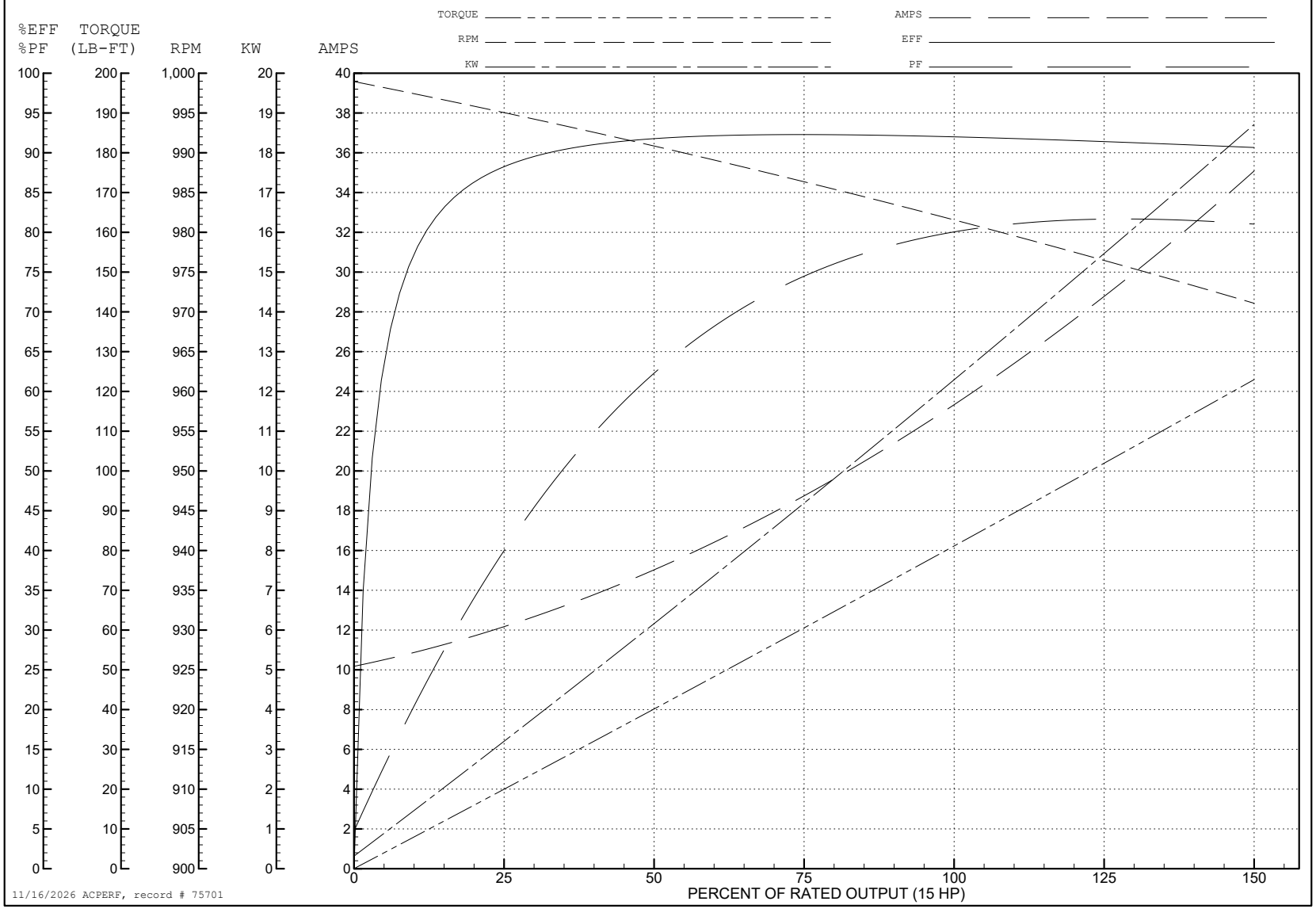
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WINDING # 10WGZ033

15 HP 3 PH 50 HZ 982 RPM 380 V 1056M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=234 PU=97.19 LR=139 LRA=142



AC Induction Motor Performance Data
Record # 75702
Typical performance - not guaranteed values

Winding: 10WGZ033-R002	**Type:** 1056M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			20//15
Volts			230/460//190/380
Full Load Amps			50/25//46/23
R.P.M.			1180//980
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	78
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	89.2 LB-FT
Start Configuration	direct on line
Breakdown Torque	243 LB-FT
Pull-up Torque	94 LB-FT
Locked-rotor Torque	134 LB-FT
Starting Current	146 A
No-load Current	10.7 A
Line-line Res. @ 25ºC	0.501 Ω
Temp. Rise @ Rated Load	51°C
Temp. Rise @ S.F. Load	63°C
Locked-rotor Power Factor	30.3
Rotor inertia	6.86 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	44	66	76	80	81	81
Efficiency	88.4	92.2	93.1	92.7	91.3	91.2
Speed	1194	1190	1185	1180	1174	1168
Line amperes	12.1	15.7	20.1	25.4	31.3	38.2

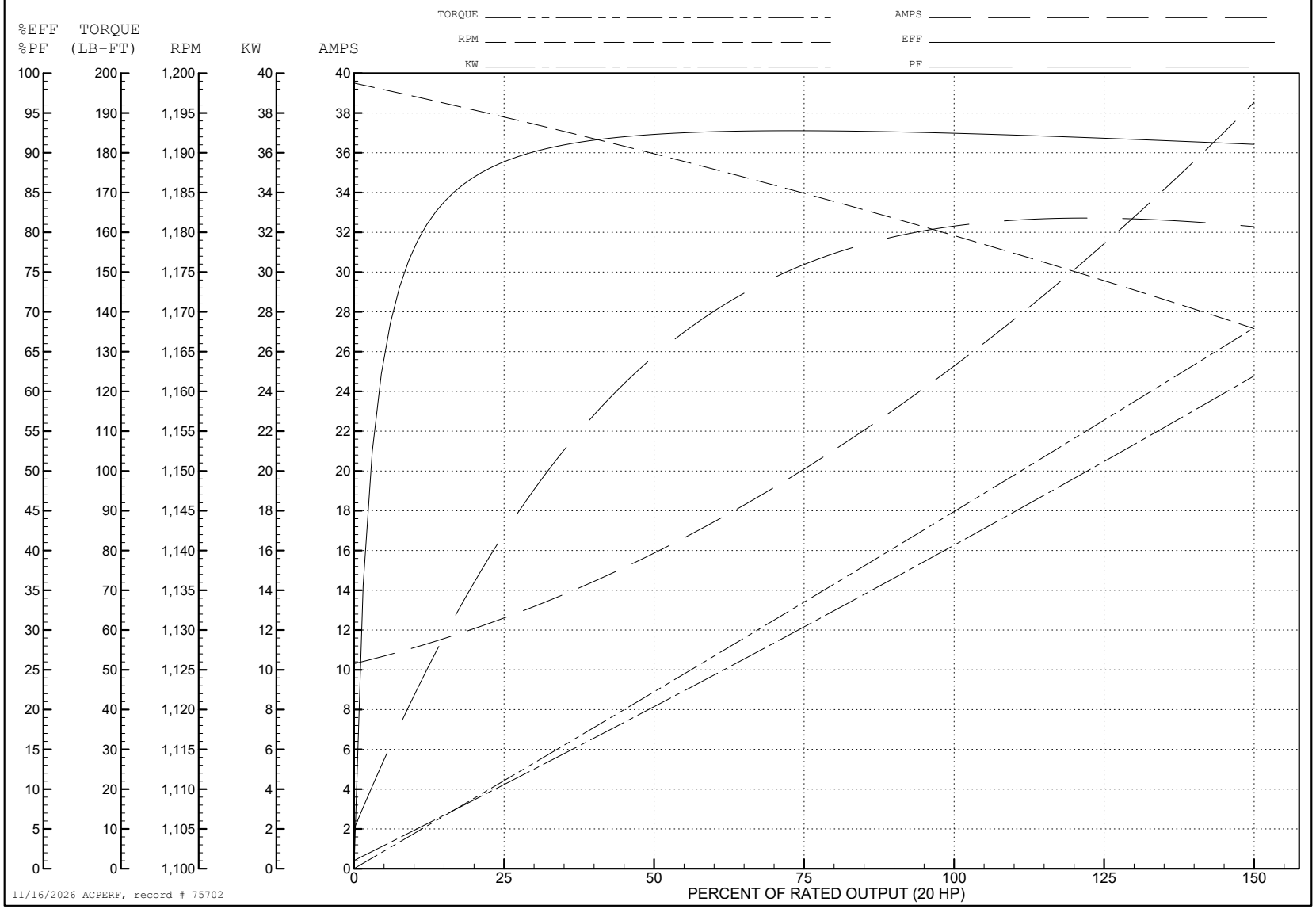
ABB Motors and Mechanical Inc.

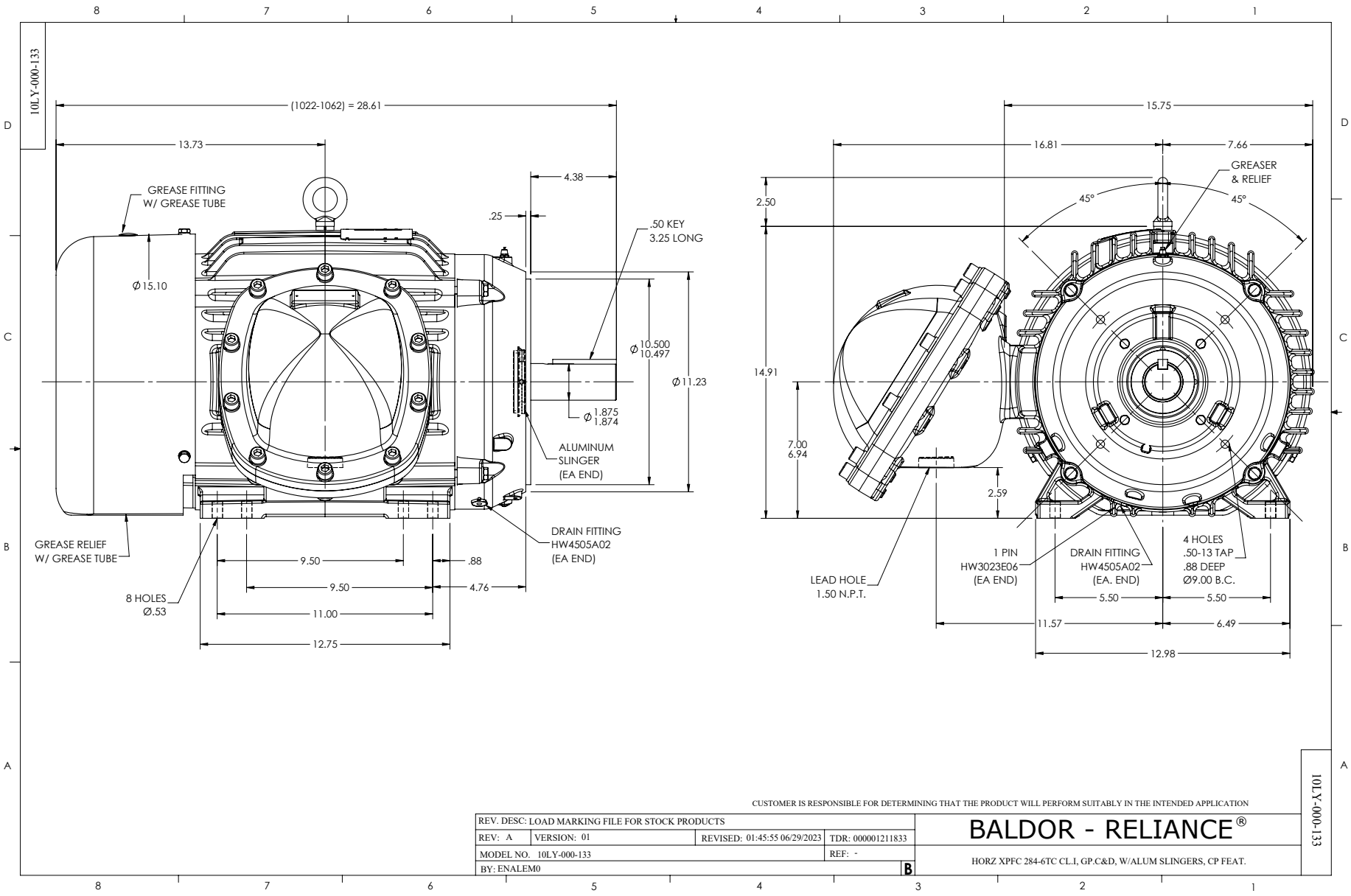
WINDING # 10WGZ033

20 HP 3 PH 60 HZ 1180 RPM 460 V 1056M

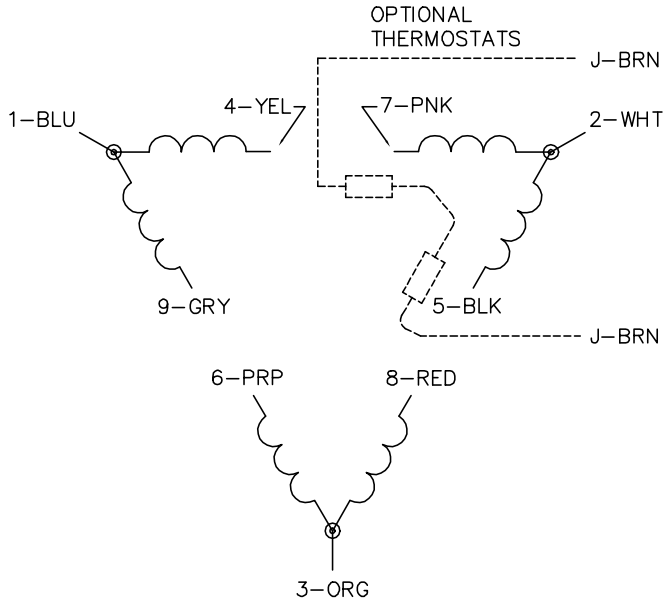
Typical performance - not guaranteed values.

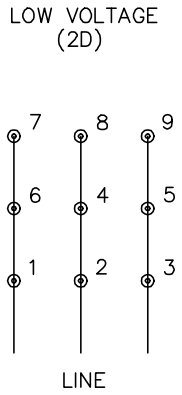
TORQUES(LB-FT): PO=243 PU=94 LR=134 LRA=146

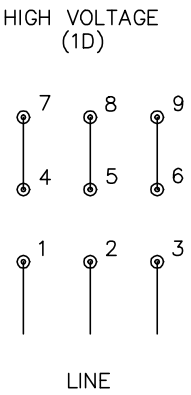



10LY-000-133
(1022-1062) = 28.61
13.73
4.38
.25
.50 KEY
3.25 LONG
GREASE FITTING
W/ GREASE TUBE
Ø15.10
Ø10.500
10.497
Ø11.23
Ø1.875
1.874
ALUMINUM
SLINGER
(EA END)
DRAIN FITTING
HW4505A02
(EA END)
GREASE RELIEF
W/ GREASE TUBE
9.50
.88
9.50
4.76
8 HOLES
Ø.53
11.00
12.75
15.75
16.81
7.66
GREASER
& RELIEF
45°
45°
2.50
14.91
7.00
6.94
2.59
LEAD HOLE
1.50 N.P.T.
1 PIN
HW3023E06
(EA END)
DRAIN FITTING
HW4505A02
(EA. END)
4 HOLES
.50-13 TAP
.88 DEEP
Ø9.00 B.C.
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: A
VERSION: 01
REVISED: 01:45:55 06/29/2023
TDR: 000001211833
MODEL NO. 10LY-000-133
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TC CL.I, GP.C&D, W/ALUM SLINGERS, CP FEAT.
10LY-000-133

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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