ABB BALDOR RELIANCE

Customer information packet

DRX28264T

20HP, 1180//980RPM, 3PH, 60HZ, 286T, XPFC, F1
Class - CLI GP C,D
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 7:59:03 PM

Specifications

Enclosure	XPFC
Frame	286T
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-000-549
Eff. date	11-22-2024
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	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	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	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.	10-0000-0769			**INV.TYPE**	PWM						
CAT.NO.	DRX28264T			**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	286T	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE			NEMA MG-1 PT.5,IP55							

Parts List

Part number	Description	Quantity
SA370108	SA 10-0000-0769	1.000 ea
RA359742	RA 10-0000-0769	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP1401XPSLEV	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
LB1081C	ALUM XP CAUTION LABEL (COL PLANT ONLY-	1.000 ea
14PA2000	PKGP, CTN ID 42X34X25, STD BASE	1.000 ea
10FH1008A05P	310 FAN HOUSING X-PROOF MACH. W/EPOXY PR	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 ea
37FN3002B03	EXFN, PLASTIC, 7.50 OD, 1.690 ID	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 lb
HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HA2066A02	ALUM SLINGER 309 BRG DRILL RIG MOTOR)	1.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
HA4017A03	.125 X 1.75 GREASE EXT (F/S)	1.000 ea
HA4017A06	/125 X 3.00 GREASER EXT. (F/S)	1.000 ea
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
10EP1709A12P	PUEP, XP (CL.I,GP.D ONLY) AL SLNGR, HW45	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea

HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 ea
HA2067A01	ALUM SLINGER 311 BRG DRILL RIG MOTOR	1.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
10XN2520K40	1/4-20 X 2-1/2 HEX HD CAPSCREW,GRADE 5,Z	4.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
10EP1701A57LP5	FR ENDPLATE, MACH PRIMED & PAINTED	1.000 ea
12CB1003A02P	KOBX, MACH 1.50 NPT GROUP C MTRS ,EPOXY	1.000 ea
10XN3118K24	5/16-18 X 1.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B19	TERMINAL BURNDY L250HP	1.000 ea
10XN3816K08	3/8-16 X .50 HEX HD CAP SCREW GRADE 5	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 ea
12CB1502A01P	CONDUIT BOX LID MACH. GROUP C MTRS	1.000 ea
84XN5013J32	SOCKET HD.CAP SCR,1/2-13 X 2"LG,ALLOY ST	10.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	10.000 ea
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.125 ga
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data
Record # 75701
Typical performance - not guaranteed values

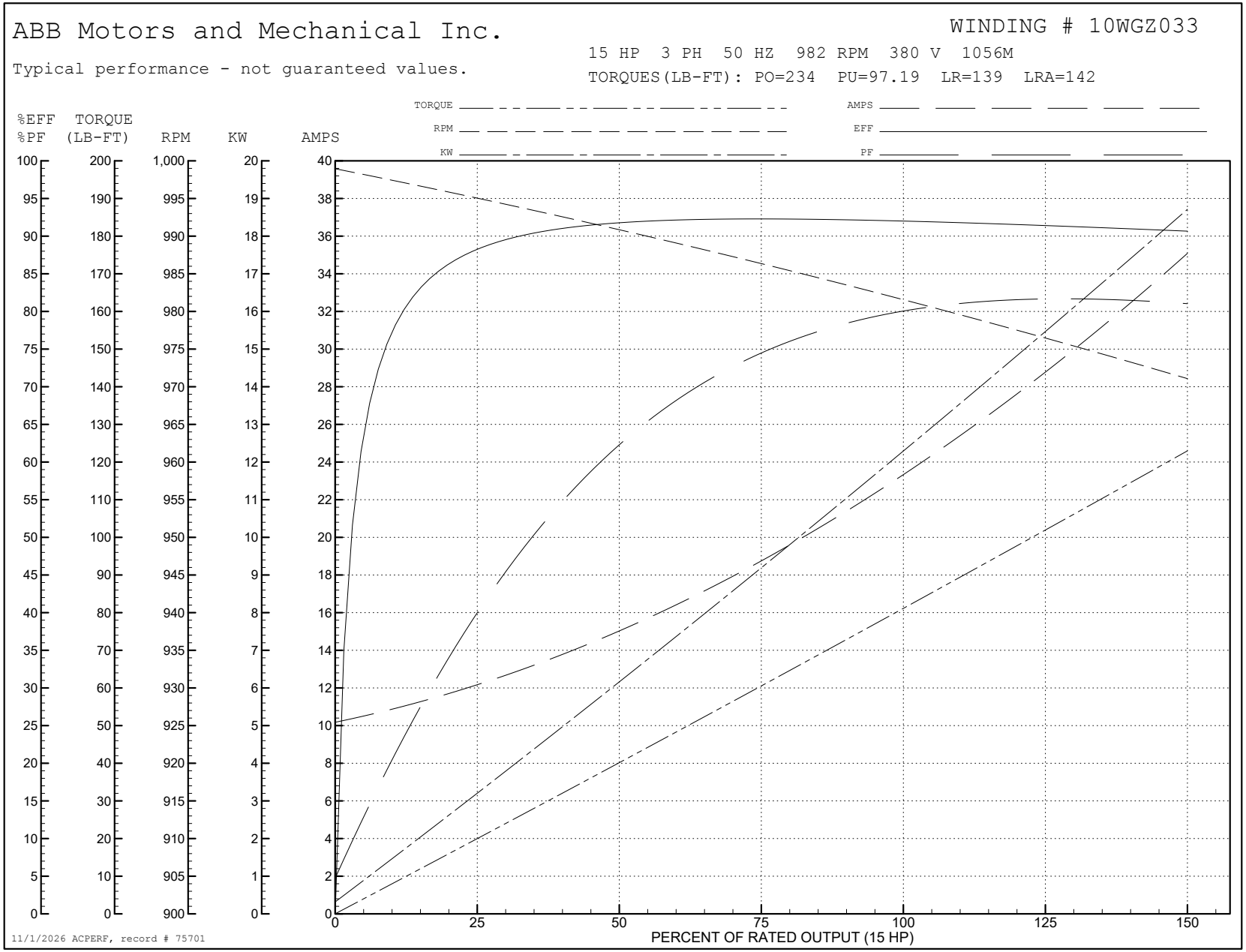
Winding: 10WGZ033-R002	**Type:** 1056M	**Enclosure:** XPFC

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


ABB Motors and Mechanical Inc.
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
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/1/2026 ACPERF, record # 75701

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

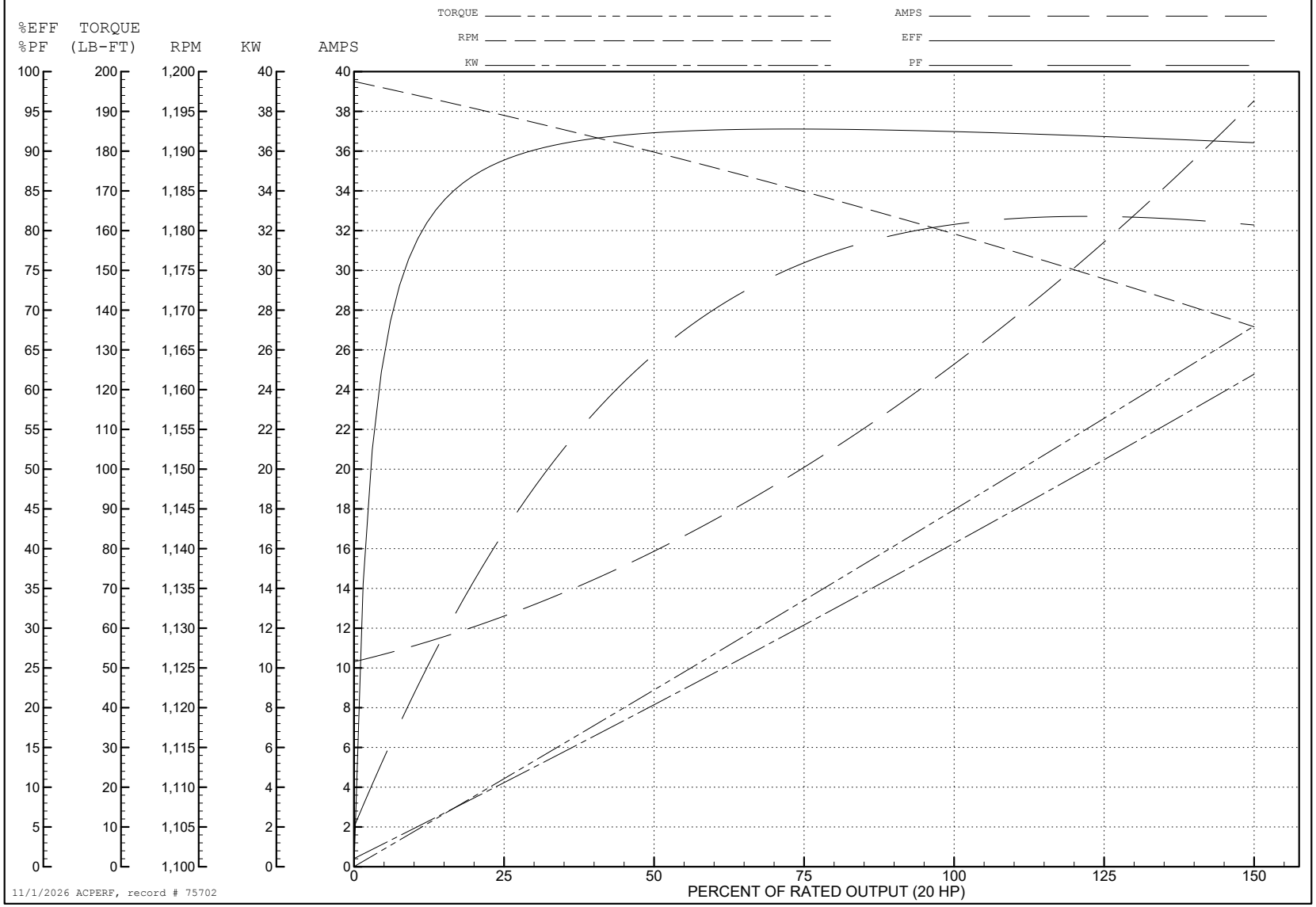
ABB Motors and Mechanical Inc.

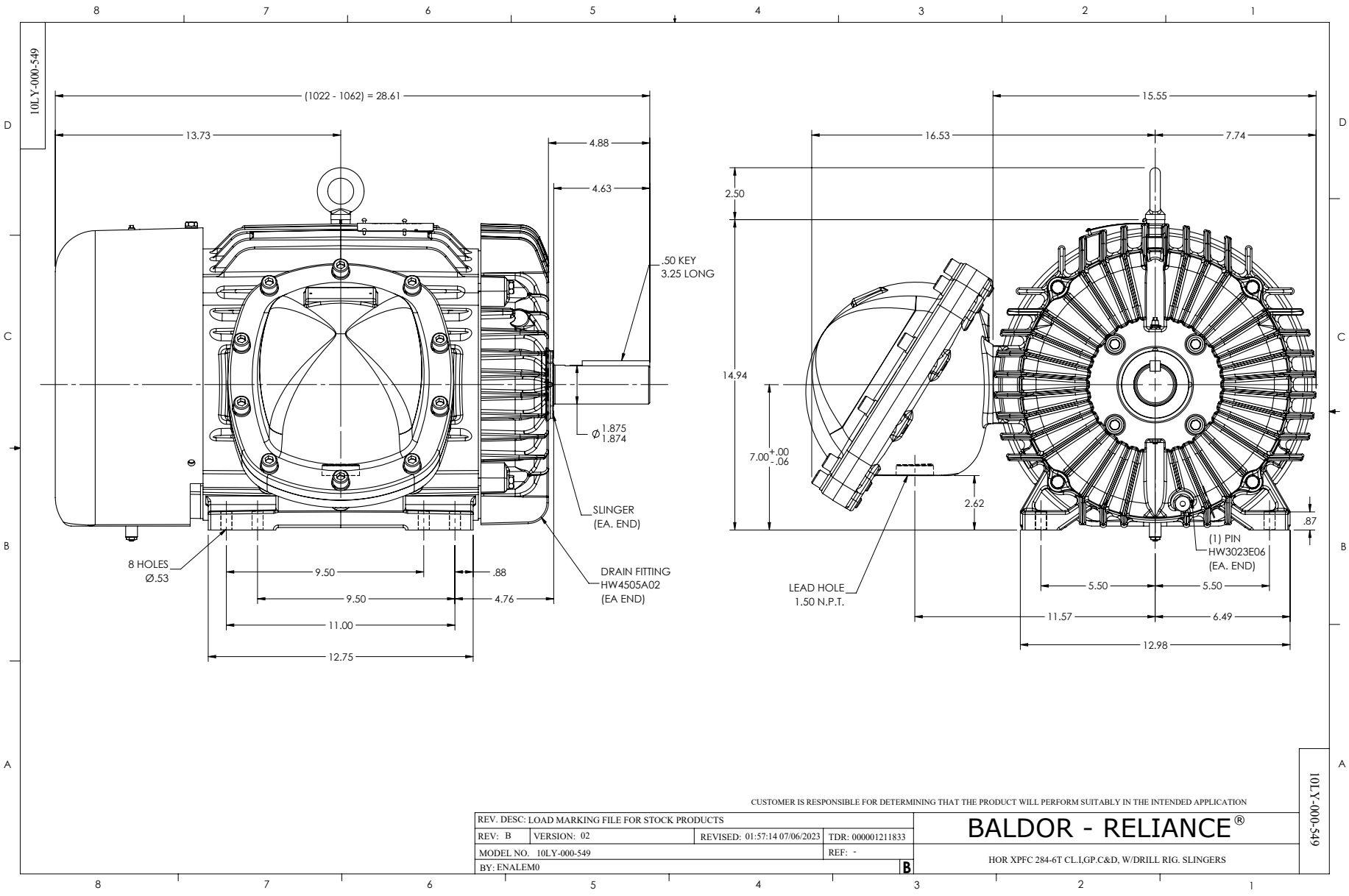
WINDING # 10WGZ033

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

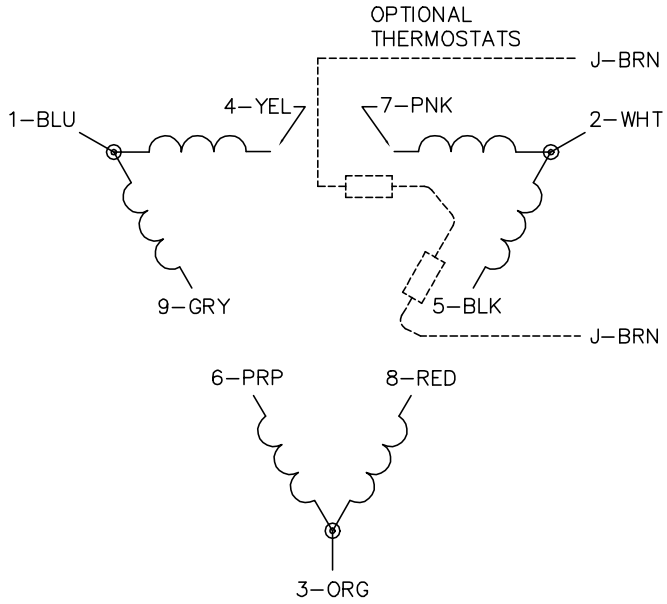
Typical performance - not guaranteed values.

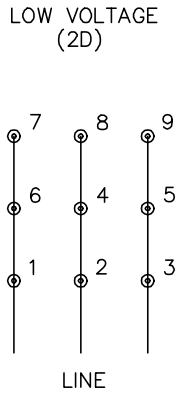
TORQUES(LB-FT): PO=243 PU=94 LR=134 LRA=146

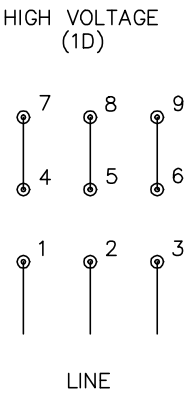



10LY-000-549
(1022 - 1062) = 28.61
13.73
4.88
4.63
.50 KEY
3.25 LONG
Ø 1.875
1.874
SLINGER
(EA. END)
8 HOLES
Ø.53
9.50
9.50
11.00
12.75
.88
4.76
DRAIN FITTING
HW4505A02
(EA END)
15.55
16.53
7.74
2.50
14.94
7.00 +.00 -.06
2.62
.87
(1) PIN
HW3023E06
(EA. END)
LEAD HOLE
1.50 N.P.T.
5.50
5.50
11.57
6.49
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

SH 1 of 1