ABB BALDOR RELIANCE

Customer information packet

XM282542T

25HP, 1775//1475RPM, 3PH, 60//50HZ, 284T, XPF
Class - CLI GP D; CLII GP F,G
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 D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 50 HZ
	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	64.000 A @ 208.0 V
	62.000 A @ 230.0 V
	60.000 A @ 190.0 V
	31.000 A @ 460.0 V
	30.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYE106
Eff. date	07-17-2023
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	06-24-2020

Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	B
Inverter Code	Inverter Duty
IP Rating	NONE
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	1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	81
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	1775 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

NP0887XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	10-0000-1575			**INV.TYPE**	PWM						
CAT.NO.	XM282542T			**C HP FR**	60	**C HP TO**	90				
HP	25//20			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	62/31//60/30			**MAG CUR**	28/14						
RPM	1775//1475			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	93.6				
SER.F.	1.00	**DES**	A	**SL HZ**	0.83	**WK2**	4.13				
FRAME	284T	**RATING**	40C AMB-CONT								
	1.15SF ON SINEWAVE										
	NEMA MG-1,PT.5,IP54										

AC Induction Motor Performance Data
Record # 67462
Typical performance - not guaranteed values

Winding: 10WGZ651-R004	**Type:** 1054M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	74.02 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			62/31	**Breakdown Torque**	262 LB-FT
R.P.M.			1775	**Pull-up Torque**	118 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	142 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	223 A
Service Factor (S.F.)			1	**No-load Current**	13.6 A
NEMA Nom. Eff.	93.6	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.2345 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
				Locked-rotor Power Factor	30.6

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	43	65	76	81	84	85
Efficiency	88.3	92.8	93.9	94	93.7	93.1
Speed	1794.1	1789.3	1783.5	1777.8	1770.8	1763.8
Line amperes	15.3	19.3	24.6	30.6	37.2	44.5

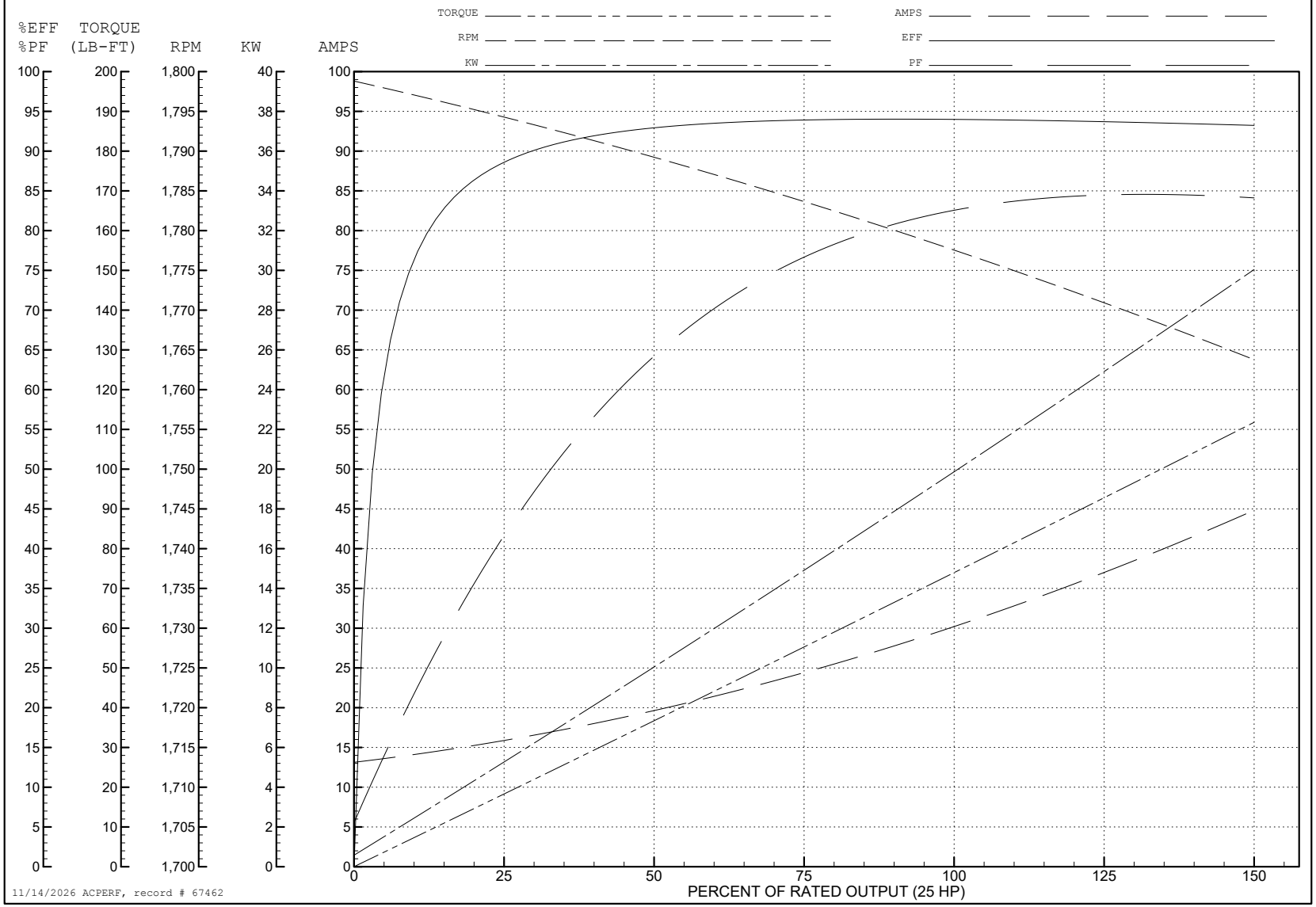
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WINDING # 10WGZ651

25 HP 3 PH 60 HZ 1775 RPM 460 V 1054M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=262 PU=118 LR=142 LRA=223



AC Induction Motor Performance Data
Record # 74484
Typical performance - not guaranteed values

Winding: 10WGZ651-R024	**Type:** 1054M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			25//20	**Full Load Torque**	71.24 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			62/31//60/30	**Breakdown Torque**	254 LB-FT
R.P.M.			1775//1475	**Pull-up Torque**	121 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	146 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	213 A
Service Factor (S.F.)			1	**No-load Current**	13.24 A
NEMA Nom. Eff.	93.6	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.231 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	58°C
				Locked-rotor Power Factor	33.9
				Rotor inertia	4.31 LB-FT2

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	43	66	76	82	84	85
Efficiency	88.8	93	93.8	93.8	93.3	92.9
Speed	1494	1490	1484	1479	1472	1465
Line amperes	14.85	18.69	23.83	29.65	36.06	43.17

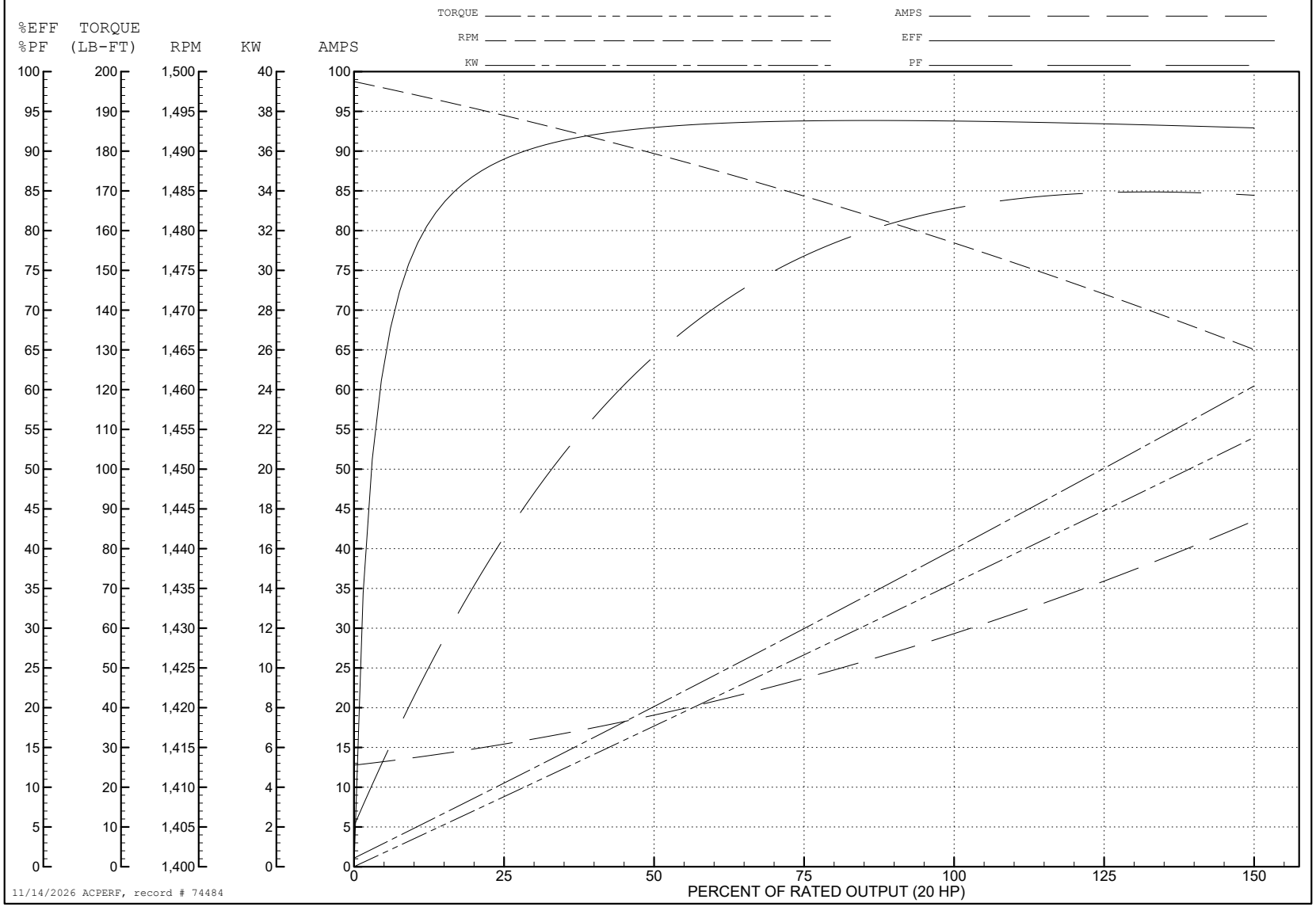
ABB Motors and Mechanical Inc.

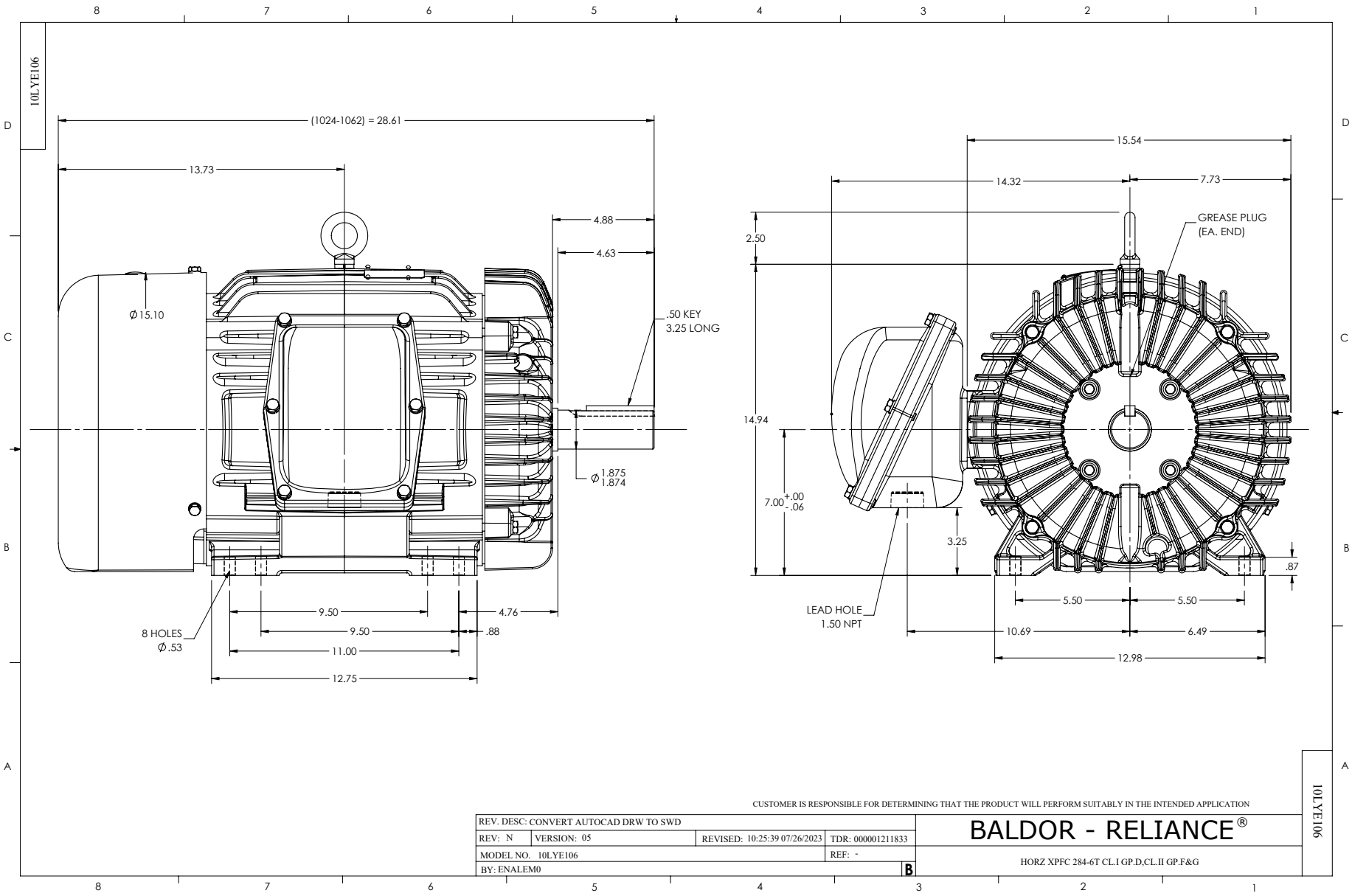
WINDING # 10WGZ651

20 HP 3 PH 50 HZ 1479 RPM 380 V 1054M

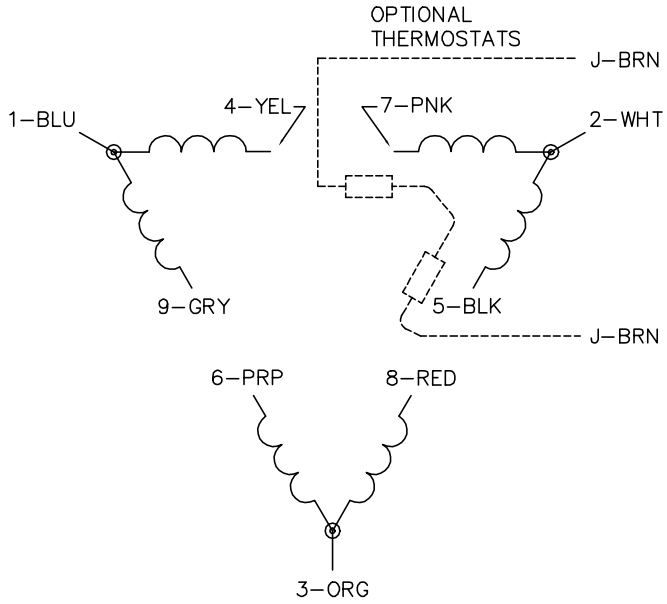
Typical performance - not guaranteed values.

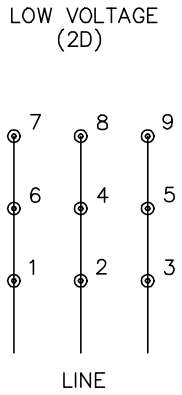
TORQUES(LB-FT): PO=254 PU=121 LR=146 LRA=213

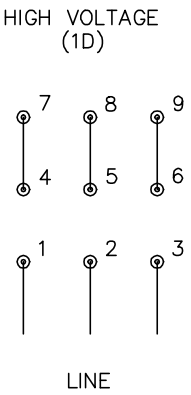



10LYE106
(1024-1062) = 28.61
13.73
4.88
4.63
Ø15.10
.50 KEY
3.25 LONG
Ø1.875
1.874
9.50
4.76
8 HOLES
Ø.53
9.50
.88
11.00
12.75
15.54
14.32
7.73
GREASE PLUG
(EA. END)
2.50
14.94
7.00 +.00 -.06
3.25
.87
LEAD HOLE
1.50 NPT
5.50
5.50
10.69
6.49
12.98
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: N
VERSION: 05
REVISED: 10:25:39 07/26/2023
TDR: 000001211833
MODEL NO. 10LYE106
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6T CL.I GP.D,CL.II GP.F&G
10LYE106

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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