ABB BALDOR RELIANCE

Customer information packet

CEM7058T-I

25//20 NEMA MG-1 PT.5, IP55HP, 1775//14
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	284TC
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	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
	CSA
	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
Current @ Voltage	62.000 A @ 230.0 V
	64.000 A @ 208.0 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	Q
Type	AC
Mech. spec.	10E949
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYE949
Eff. date	11-22-2024
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	10-20-2017

Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	Shaft Slinger
Speed	1475 rpm
	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

NP0977XPSLEV											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T3C				
SPEC.	10E949Z651G1										
CAT.NO.	CEM7058T-I										
HP	25//20 NEMA MG-1 PT.5,IP55										
VOLTS	230/460//190/380										
AMPS	62/31//60/30										
RPM	1775//1475				**MOTOR WEIGHT**		506				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6311				
SER.F.	1.15	**DES**	A	**CODE**	J	**ODE BRG**	6309				
FRAME	284TC	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF		93.6	**PF**	81			
	55C AMB @ 1.0 SF,60C RISE										

AC Induction Motor Performance Data
Record # 67490
Typical performance - not guaranteed values

Winding: 10WGZ651-R010	**Type:** 1054M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			25//20
Volts			230/460//190/380
Full Load Amps			62/31//60/30
R.P.M.			1775//1475
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93.6	**Power Factor**	81
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	74.02 LB-FT
Start Configuration	direct on line
Breakdown Torque	262 LB-FT
Pull-up Torque	118 LB-FT
Locked-rotor Torque	142 LB-FT
Starting Current	223 A
No-load Current	13.6 A
Line-line Res. @ 25ºC	0.2345 Ω
Temp. Rise @ Rated Load	51°C
Temp. Rise @ S.F. Load	61°C
Locked-rotor Power Factor	30.6

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	65	76	81	84	85	83
Efficiency	88.3	92.8	93.9	94	93.7	93.1	93.8
Speed	1794.1	1789.3	1783.5	1777.8	1770.8	1763.8	1774
Line amperes	15.3	19.3	24.6	30.6	37.2	44.5	34.6

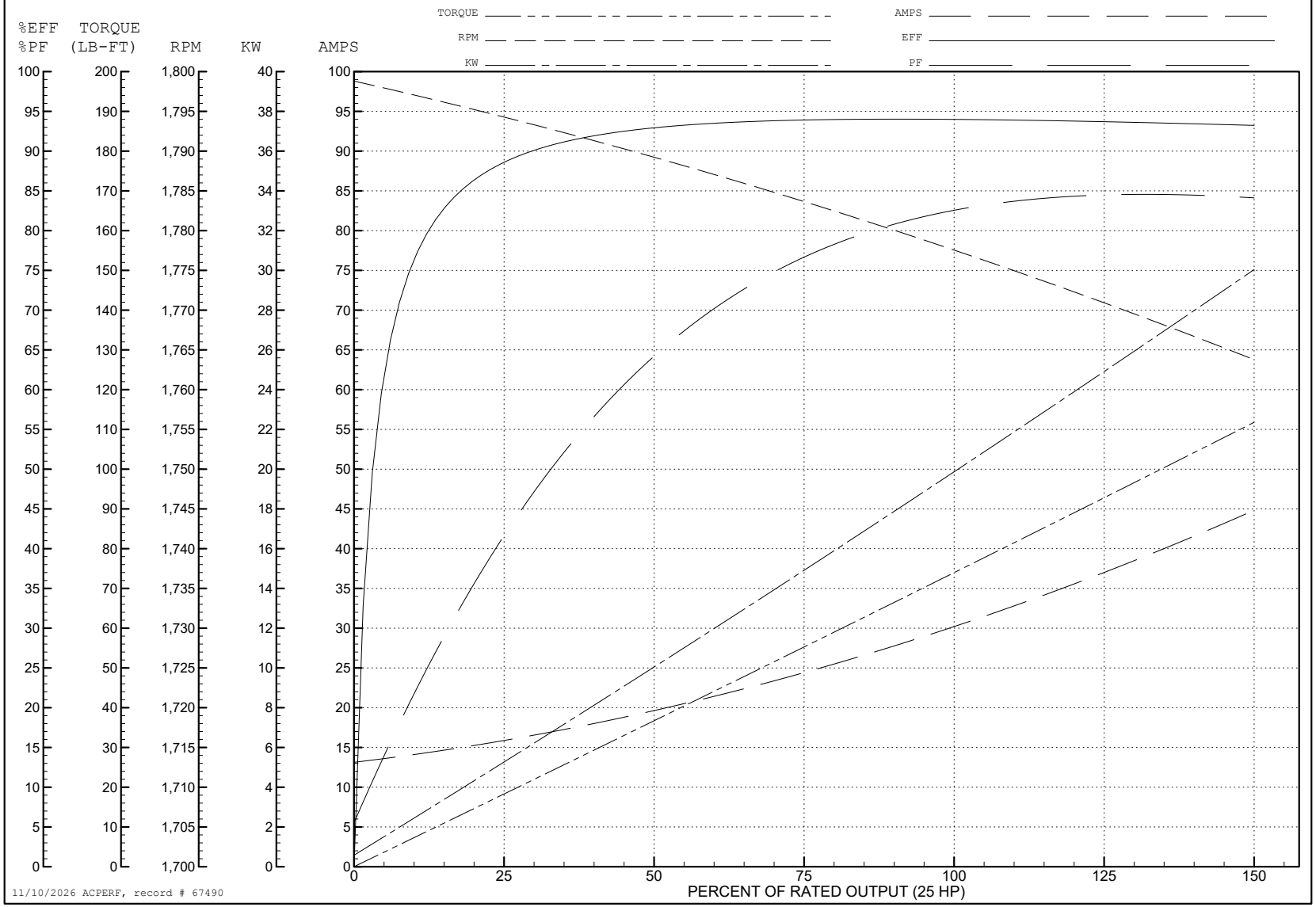
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WINDING # 10WGZ651

25 HP 3 PH 60 HZ 1777.8 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 # 67491
Typical performance - not guaranteed values

Winding: 10WGZ651-R010	**Type:** 1054M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			25//20
Volts			230/460//190/380
Full Load Amps			62/31//60/30
R.P.M.			1775//1475
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93.6	**Power Factor**	81
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	71.24 LB-FT
Start Configuration	direct on line
Breakdown Torque	254 LB-FT
Pull-up Torque	121 LB-FT
Locked-rotor Torque	146 LB-FT
Starting Current	213 A
No-load Current	13.24 A
Line-line Res. @ 25ºC	0.229 Ω
Temp. Rise @ Rated Load	48°C
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**	**S.F.**
Power Factor	43	66	76	82	84	85	83
Efficiency	88.8	93	93.8	93.8	93.3	93	93.5
Speed	1494	1490	1484	1479	1472	1465	1475
Line amperes	14.85	18.69	23.83	29.65	36.06	43.14	33.5

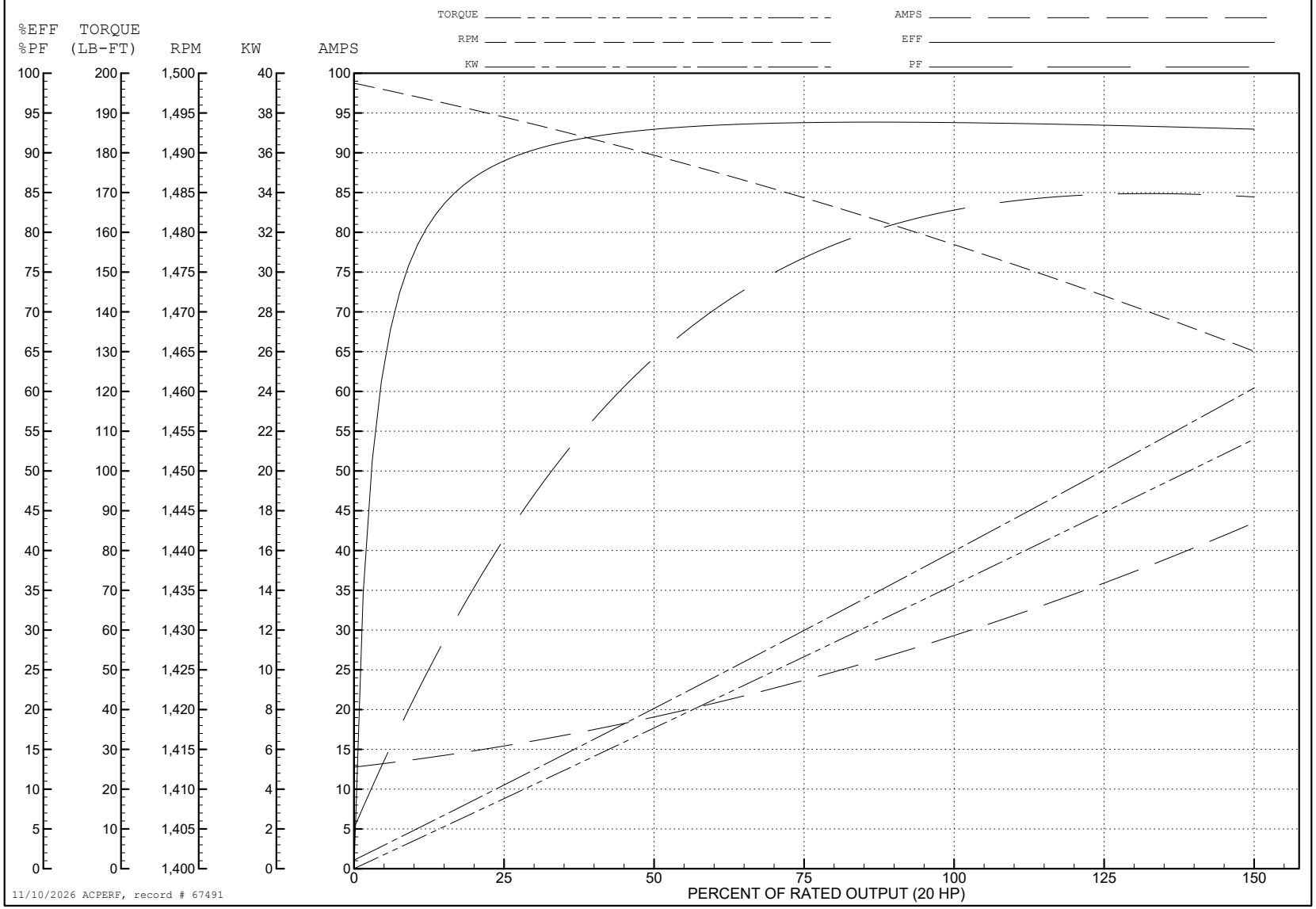
ABB Motors and Mechanical Inc.

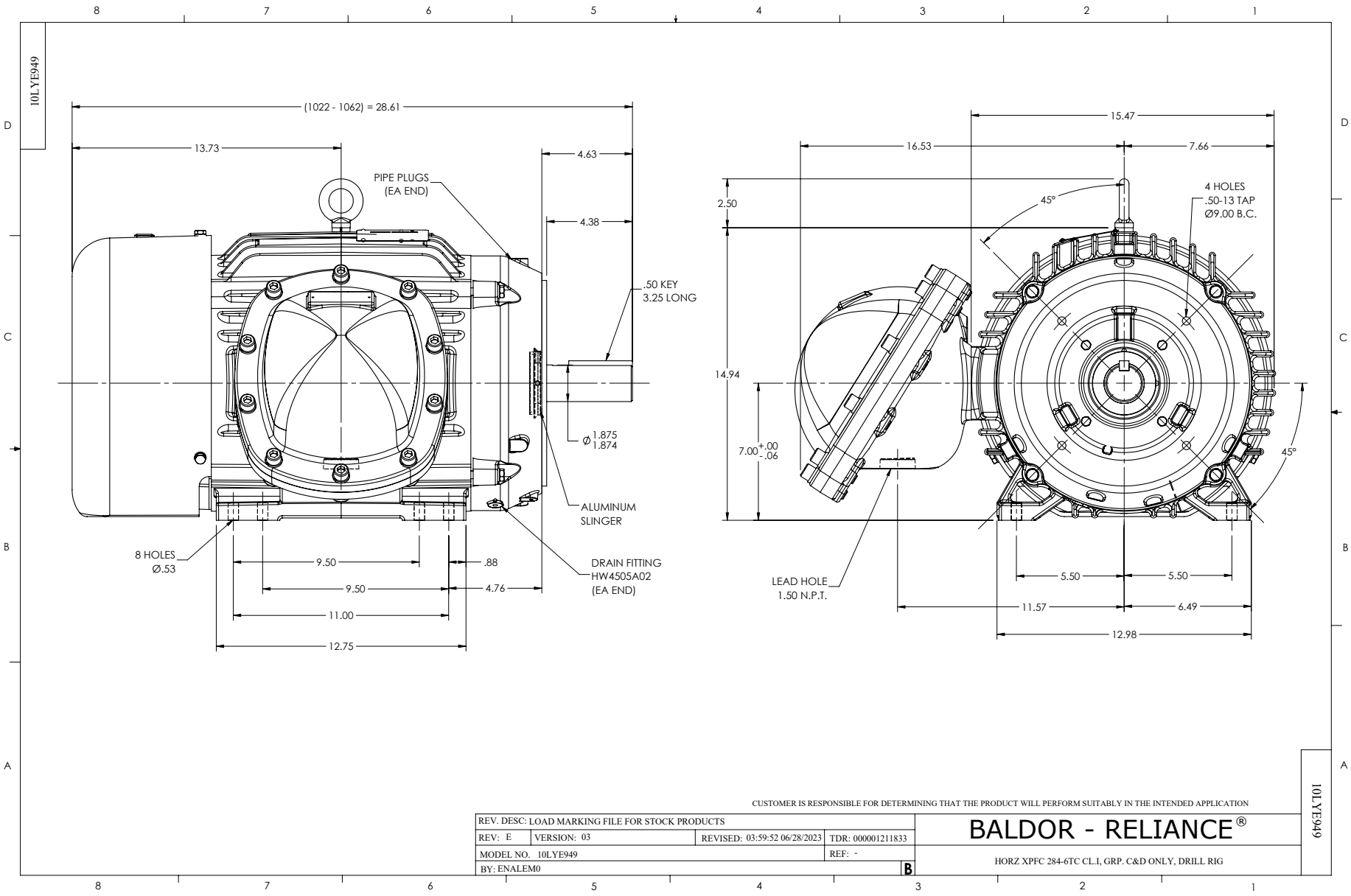
WINDING # 10WGZ651

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

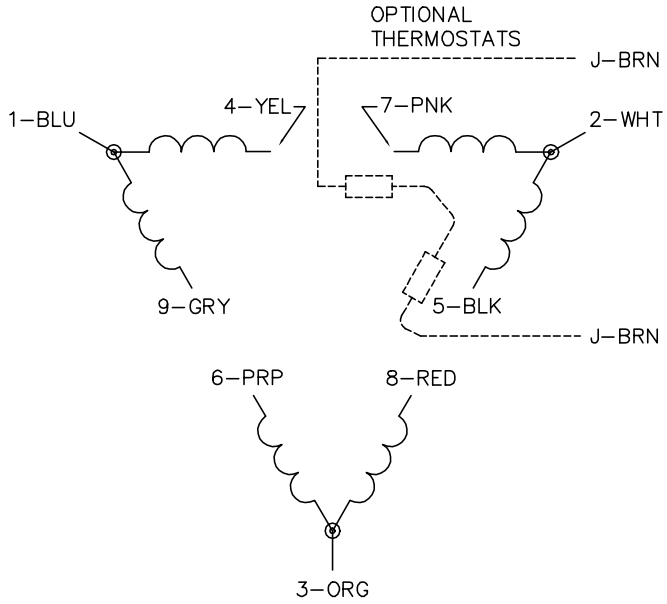
Typical performance - not guaranteed values.

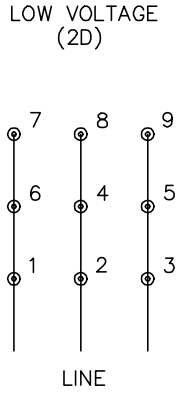
TORQUES(LB-FT): PO=254 PU=121 LR=146 LRA=213

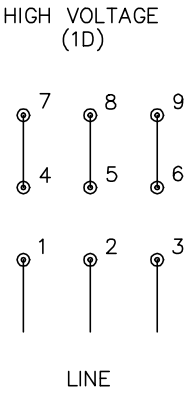



10LYE949
(1022 - 1062) = 28.61
13.73
4.63
4.38
PIPE PLUGS
(EA END)
.50 KEY
3.25 LONG
Ø 1.875
1.874
ALUMINUM
SLINGER
8 HOLES
Ø.53
9.50
.88
9.50
4.76
11.00
12.75
DRAIN FITTING
HW4505A02
(EA END)
15.47
16.53
7.66
2.50
45°
4 HOLES
.50-13 TAP
Ø9.00 B.C.
14.94
7.00 +.00 -.06
45°
LEAD HOLE
1.50 N.P.T.
5.50
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: E
VERSION: 03
REVISED: 03:59:52 06/28/2023
TDR: 000001211833
MODEL NO. 10LYE949
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TC CL.I, GRP. C&D ONLY, DRILL RIG
10LYE949

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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