ABB BALDOR RELIANCE

Customer information packet

CEM7060T-I

30//25HP, 1770//1470RPM, 3PH, 60//50HZ, 286T
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	25.000 HP @ 50 HZ
	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA
	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
Current @ Voltage	76.000 A @ 208.0 V
	74.000 A @ 190.0 V
	72.000 A @ 230.0 V
	37.000 A @ 380.0 V
	36.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	AN
Type	AC
Mech. spec.	10E949
Base	
Status	PRD/A
Elec. spec.	10WGY758
Layout	10LYE949
Eff. date	11-22-2024
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	06-10-2010

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	36.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
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	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	83
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 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	1470 rpm
	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
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.	10E949Y758G1											
CAT.NO.	CEM7060T-I											
HP	30//25 NEMA MG-1 PT.5,IP55											
VOLTS	230/460//190/380											
AMPS	72/36//74/37											
RPM	1770//1470					**MOTOR WEIGHT**	518					
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6311					
SER.F.	1.15	**DES**	A	**CODE**	G	**ODE BRG**	6309					
FRAME	286TC	**GREASE**	POLYREX EM									
RATING	40C AMB-CONT											
				NEMA-NOM-EFF		93.6	**PF**	83				
	55C AMB @ 1.0 SF 60C RISE											

AC Induction Motor Performance Data
Record # 53263
Typical performance - not guaranteed values

Winding: 10WGY758-R018	**Type:** 1056M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			30//25
Volts			230/460//190/380
Full Load Amps			72/36//74/37
R.P.M.			1770//1470
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93.6	**Power Factor**	83
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	89.1 LB-FT
Start Configuration	direct on line
Breakdown Torque	270 LB-FT
Pull-up Torque	128 LB-FT
Locked-rotor Torque	145 LB-FT
Starting Current	235 A
No-load Current	15.9 A
Line-line Res. @ 25ºC	0.226 Ω
Temp. Rise @ Rated Load	57°C
Temp. Rise @ S.F. Load	71°C
Locked-rotor Power Factor	32
Rotor inertia	4.45 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	66	75	83	83	83	83
Efficiency	90.6	93.7	94.3	94	93.2	93	93.5
Speed	1794	1787	1781	1774	1766	1757	1769
Line amperes	17.9	23	30.1	36.2	45.3	54.5	41.7

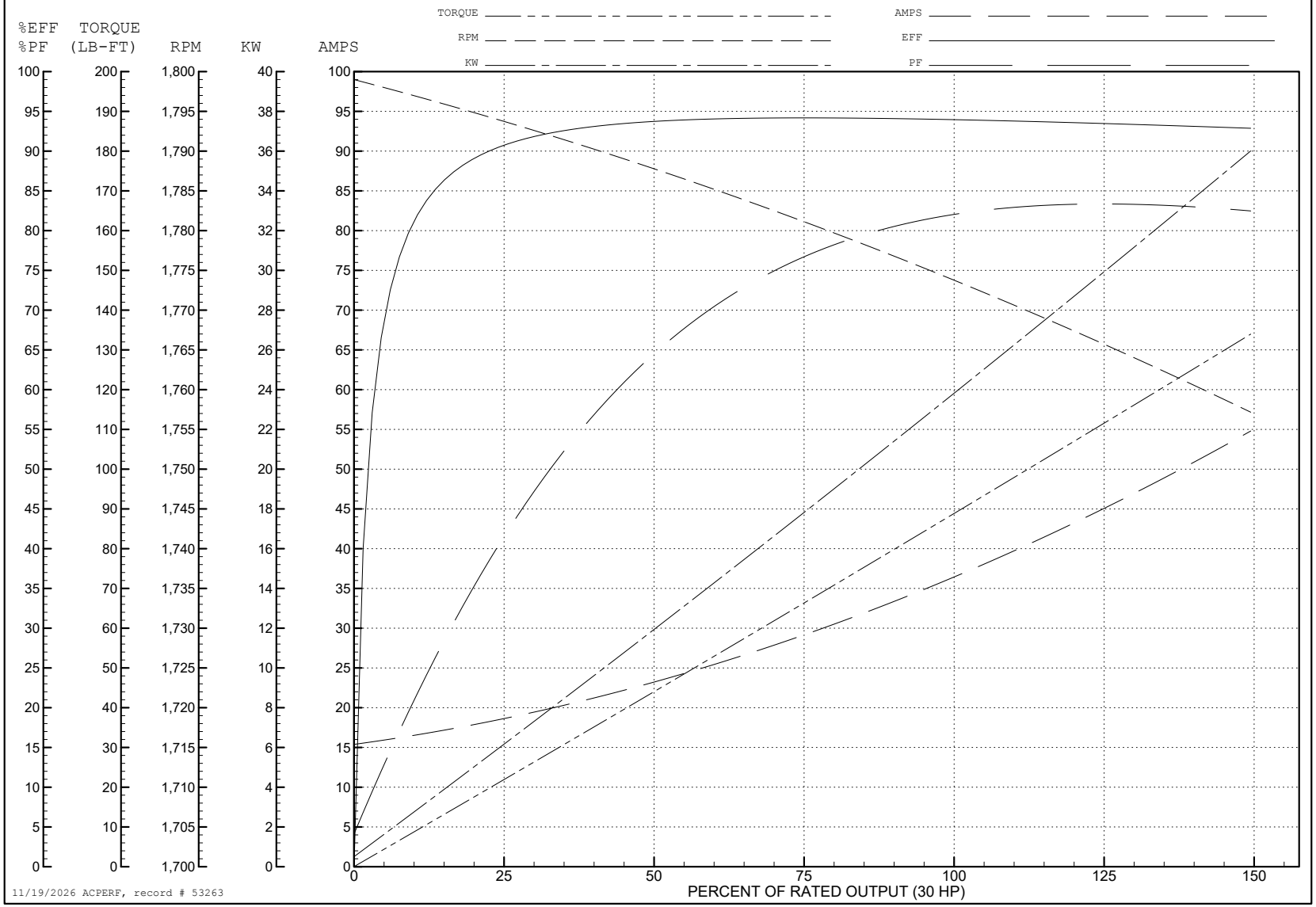
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WINDING # 10WGY758

30 HP 3 PH 60 HZ 1774 RPM 460 V 1056M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=270 PU=128 LR=145 LRA=235



AC Induction Motor Performance Data
Record # 53264
Typical performance - not guaranteed values

Winding: 10WGY758-R018	**Type:** 1056M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			30//25
Volts			230/460//190/380
Full Load Amps			72/36//74/37
R.P.M.			1770//1470
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93.6	**Power Factor**	83
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	89.3 LB-FT
Start Configuration	direct on line
Breakdown Torque	267 LB-FT
Pull-up Torque	131 LB-FT
Locked-rotor Torque	149 LB-FT
Starting Current	224 A
No-load Current	15.5 A
Line-line Res. @ 25ºC	0.226 Ω
Temp. Rise @ Rated Load	57°C
Temp. Rise @ S.F. Load	75°C
Locked-rotor Power Factor	35
Rotor inertia	4.45 LB-FT2

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	76	83	83	83	83
Efficiency	90	93.2	93.7	93.4	91.9	92	92.5
Speed	1494	1487	1481	1474	1466	1457	1469
Line amperes	17.6	22.9	30.2	36.5	45.9	55.5	42.1

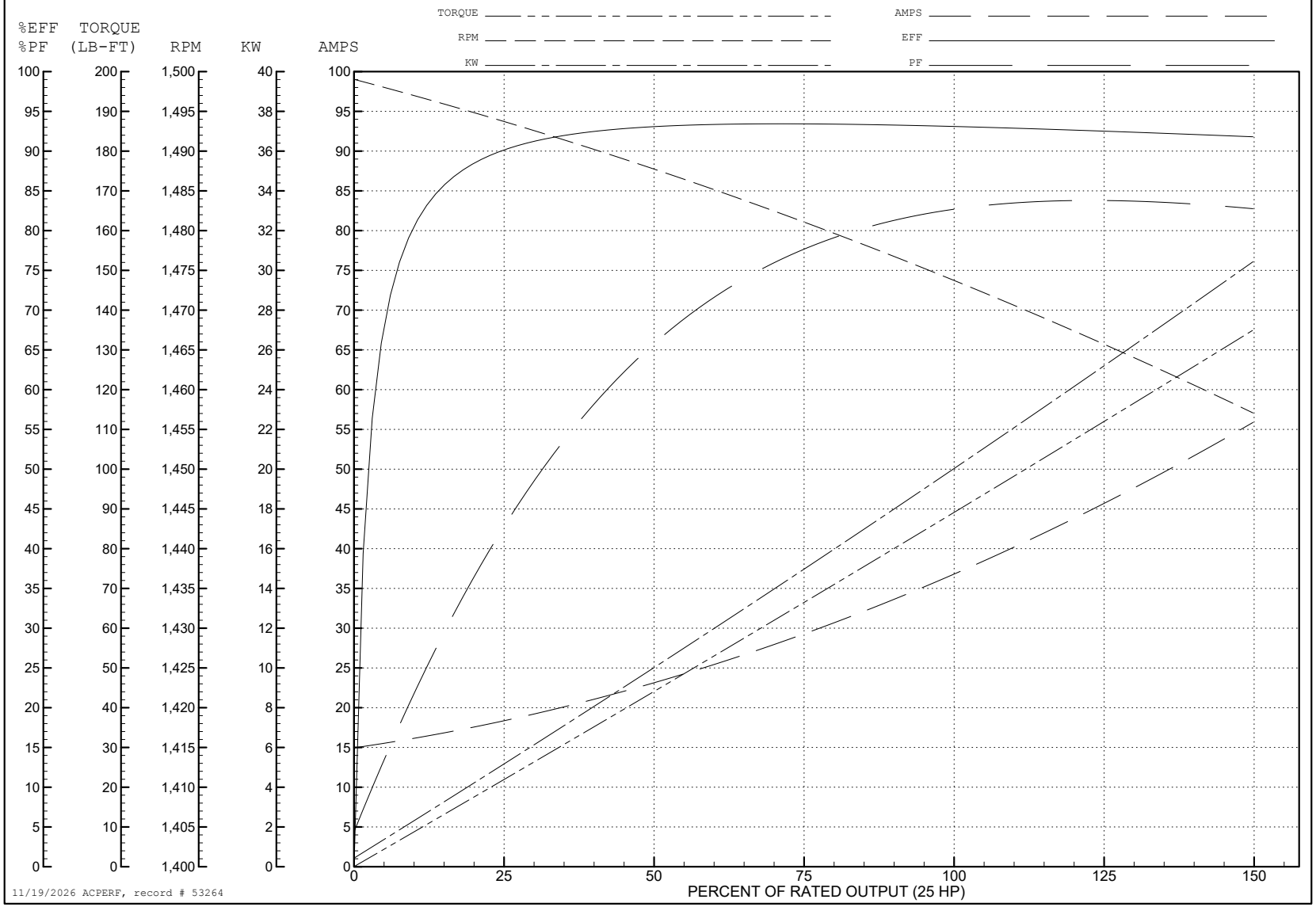
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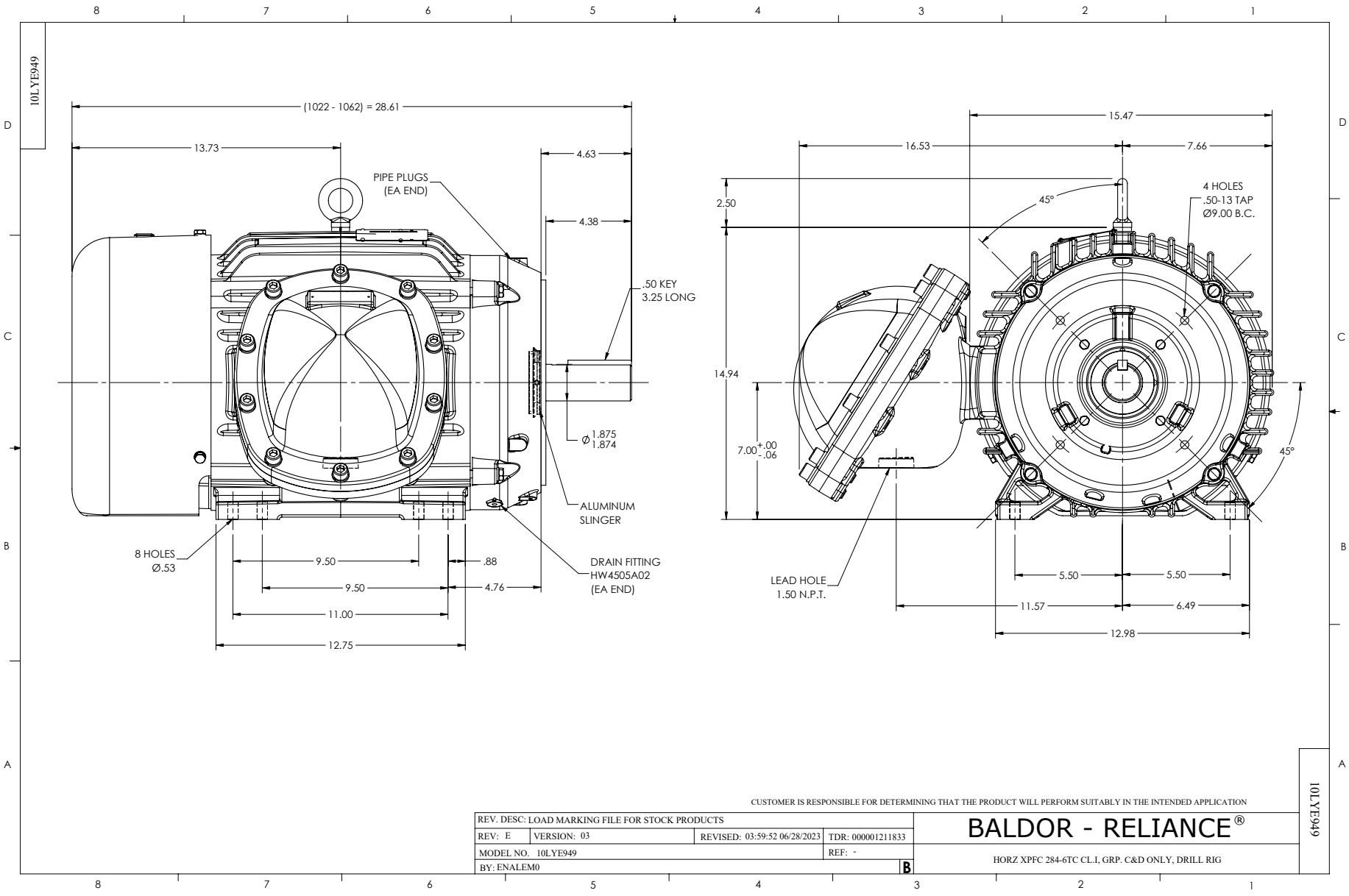
WINDING # 10WGY758

25 HP 3 PH 50 HZ 1474 RPM 380 V 1056M

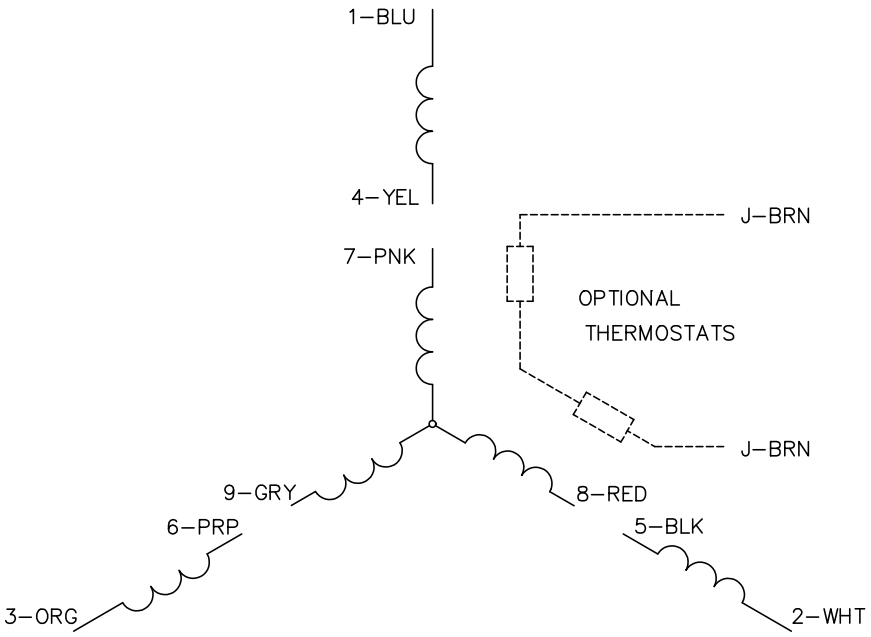
Typical performance - not guaranteed values.

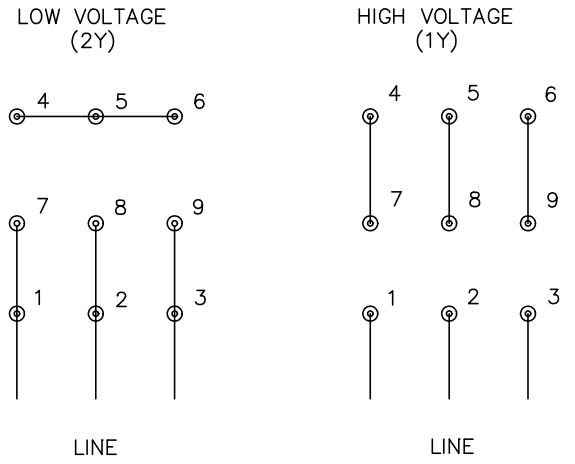
TORQUES(LB-FT): PO=267 PU=131 LR=149 LRA=224




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

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS