ABB BALDOR RELIANCE

Customer information packet

EM7057T-I

15//10 NEMA MG-1 PT.5, IP55HP, 1175//985
Class - CLI GP C,D
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 C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 50 HZ
	15.000 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
	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	42.000 A @ 208.0 V
	42.000 A @ 230.0 V
	36.000 A @ 190.0 V
	21.000 A @ 460.0 V
	18.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	S
Type	AC
Mech. spec.	10E950
Base	
Status	PRD/A
Elec. spec.	10WGY561
Layout	10LYE950
Eff. date	06-13-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	04-22-2016

Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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	18.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
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	X1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.61 IN
Power Factor	73
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
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	1175 rpm
	985 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.	10E950Y561G2										
CAT.NO.	EM7057T-I										
HP	15//10 NEMA MG-1 PT.5,IP55										
VOLTS	230/460//190/380										
AMPS	42/21//36/18										
RPM	1175//985				**MOTOR WEIGHT**		478				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6311				
SER.F.	1.15	**DES**	A	**CODE**	H	**ODE BRG**	6309				
FRAME	284T	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF		91.7	**PF**	73			
	55C AMB @ 1.0 SF,60C RISE										

AC Induction Motor Performance Data
Record # 56745
Typical performance - not guaranteed values

Winding: 10WGY561-R033	**Type:** 1046M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			15//10
Volts			230/460//190/380
Full Load Amps			42/21//36/18
R.P.M.			1175//985
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	73
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	66.68 LB-FT
Start Configuration	direct on line
Breakdown Torque	213 LB-FT
Pull-up Torque	93.1 LB-FT
Locked-rotor Torque	114 LB-FT
Starting Current	144 A
No-load Current	12.4 A
Line-line Res. @ 25ºC	0.502 Ω
Temp. Rise @ Rated Load	43°C
Temp. Rise @ S.F. Load	51°C
Locked-rotor Power Factor	32.9
Rotor inertia	5.63 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	65	72	76	78	75
Efficiency	83	89.4	91.3	91.7	91.4	90.8	91.7
Speed	1196	1193	1189	1185	1181	1177	1181
Line amperes	13.2	15.1	17.9	21.3	25.3	29.6	23.4

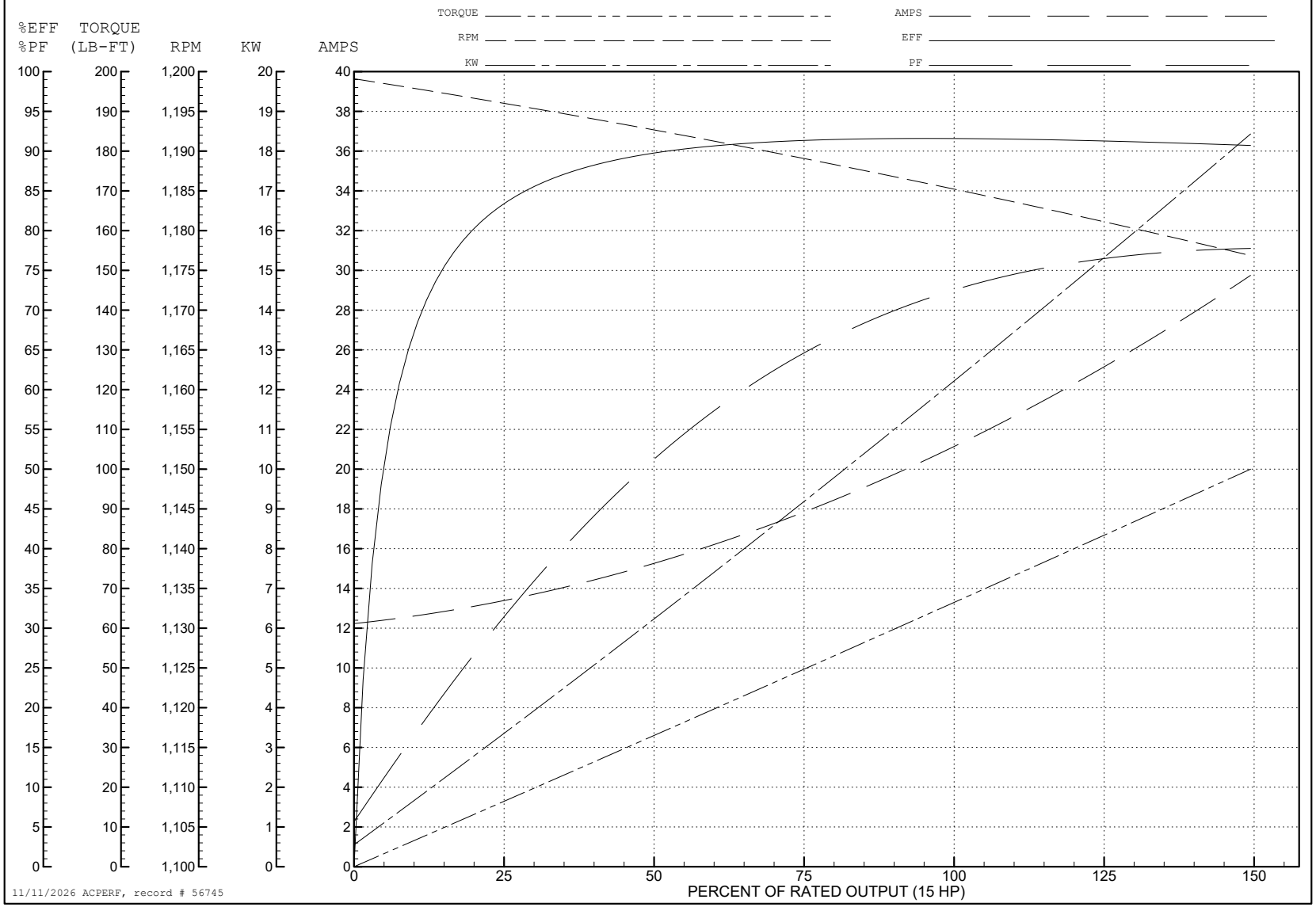
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WINDING # 10WGY561

15 HP 3 PH 60 HZ 1185 RPM 460 V 1046M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=213 PU=93.1 LR=114 LRA=144



AC Induction Motor Performance Data
Record # 56746
Typical performance - not guaranteed values

Winding: 10WGY561-R033	**Type:** 1046M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			15//10
Volts			230/460//190/380
Full Load Amps			42/21//36/18
R.P.M.			1175//985
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	73
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	53.33 LB-FT
Start Configuration	direct on line
Breakdown Torque	205 LB-FT
Pull-up Torque	95.7 LB-FT
Locked-rotor Torque	117 LB-FT
Starting Current	139 A
No-load Current	12.06 A
Line-line Res. @ 25ºC	0.502 Ω
Temp. Rise @ Rated Load	34°C
Temp. Rise @ S.F. Load	40°C
Locked-rotor Power Factor	36.5
Rotor inertia	5.63 lb-ft²

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	46	59	67	72	76	71
Efficiency	80.7	88.1	90.4	91.1	91	90.5	90.7
Speed	997	994	991	988	985	981	985
Line amperes	12.64	14.01	16.05	18.57	21.57	24.81	20.1

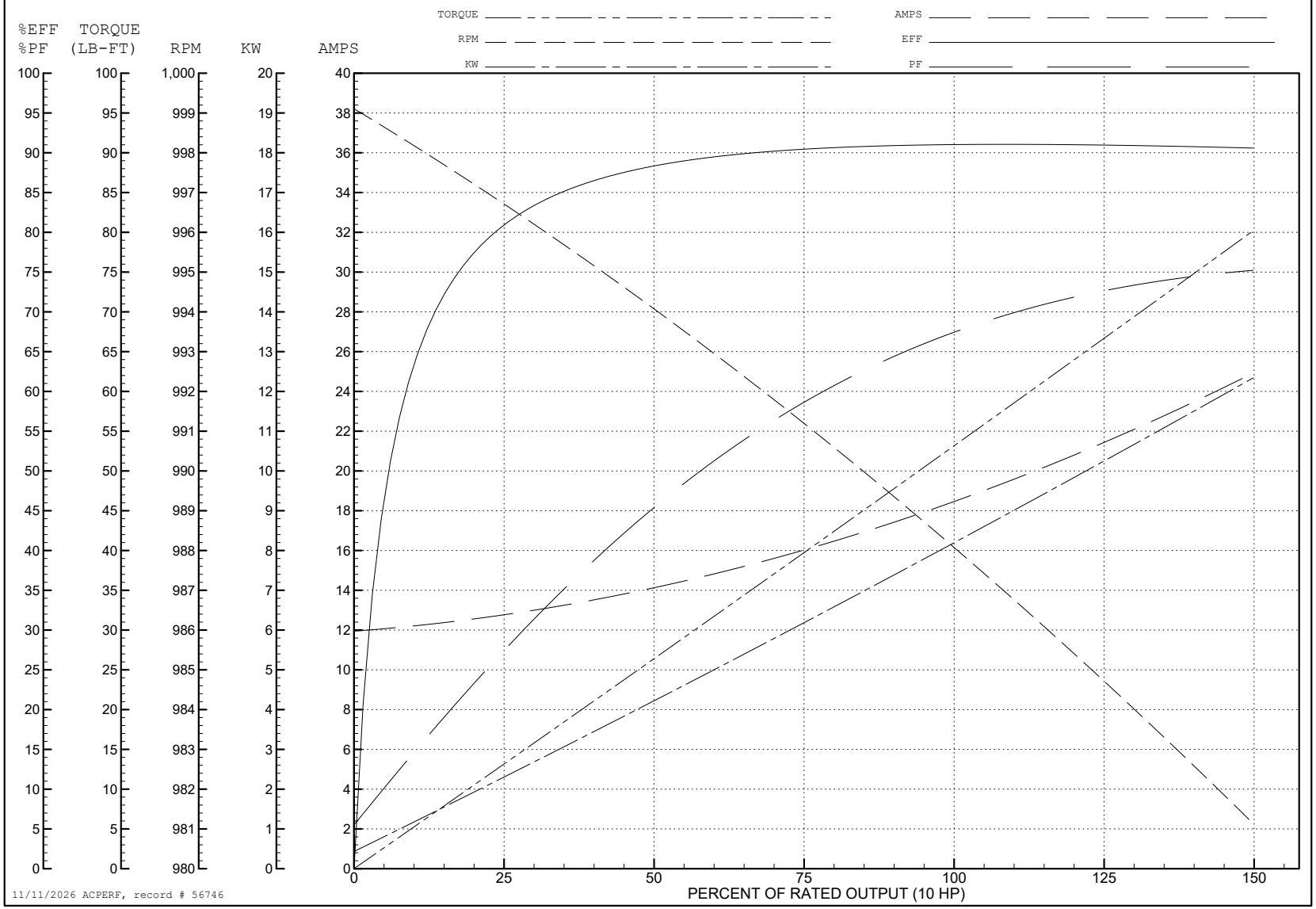
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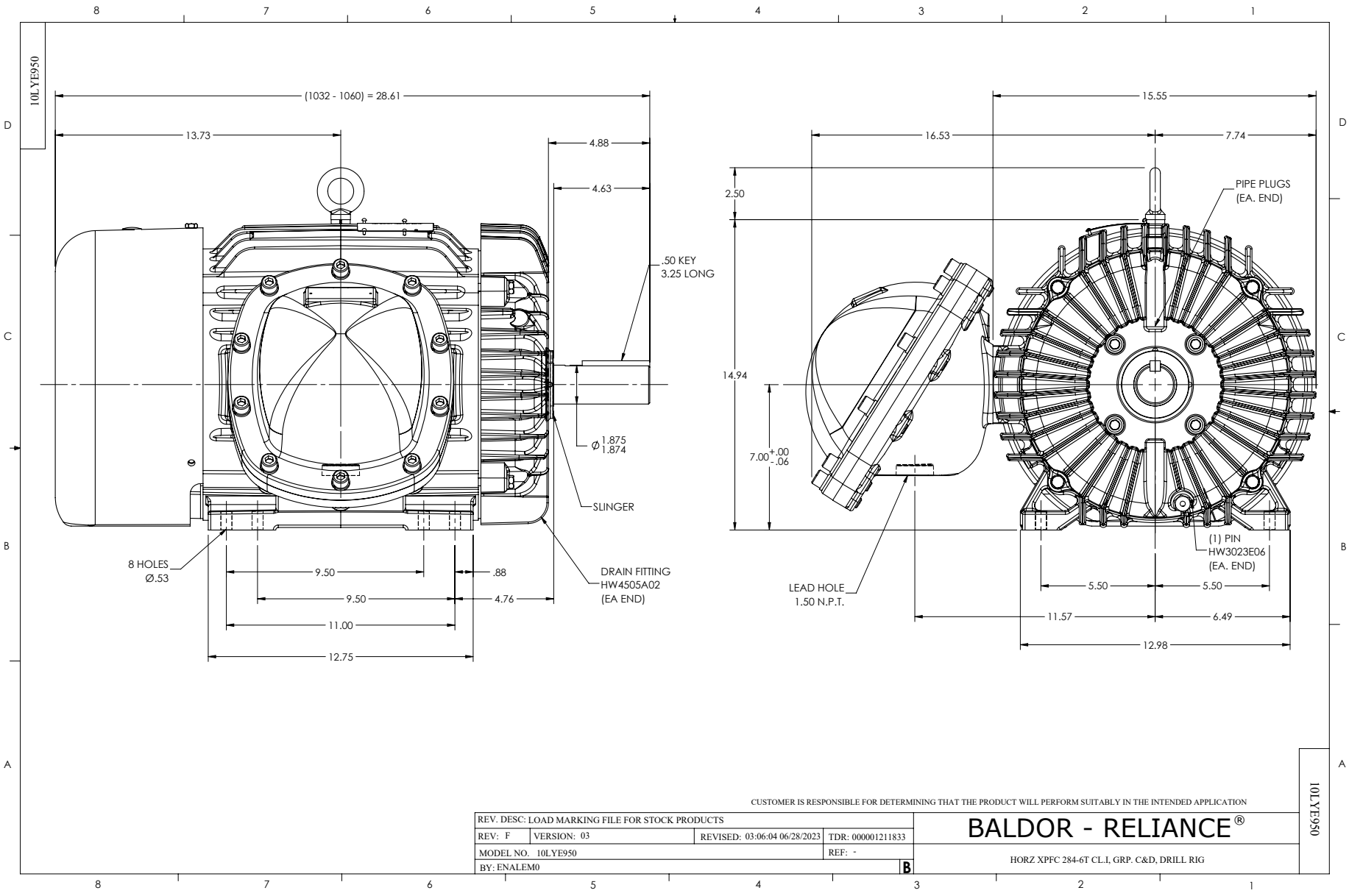
WINDING # 10WGY561

10 HP 3 PH 50 HZ 988 RPM 380 V 1046M

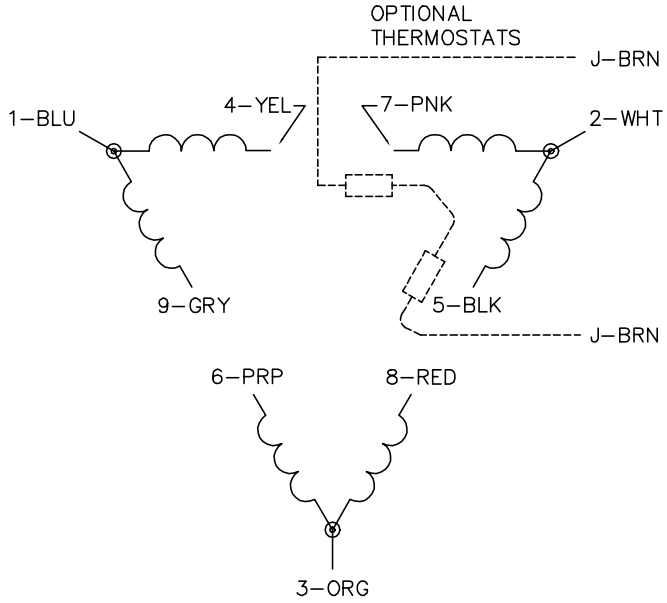
Typical performance - not guaranteed values.

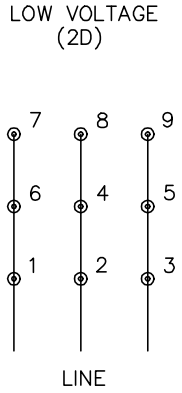
TORQUES(LB-FT): PO=205 PU=95.7 LR=117 LRA=139

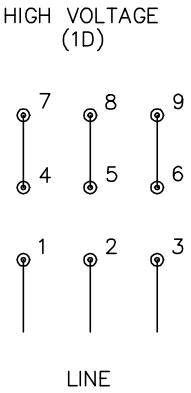



10LYE950
(1032 - 1060) = 28.61
13.73
4.88
4.63
.50 KEY
3.25 LONG
Ø1.875
1.874
SLINGER
8 HOLES
Ø.53
9.50
.88
9.50
4.76
11.00
12.75
DRAIN FITTING
HW4505A02
(EA END)
15.55
16.53
7.74
2.50
PIPE PLUGS
(EA. END)
14.94
7.00 +.00 -.06
LEAD HOLE
1.50 N.P.T.
(1) PIN
HW3023E06
(EA. END)
5.50
5.50
11.57
6.49
12.98
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD MARKING FILE FOR STOCK PRODUCTS
REV: F
VERSION: 03
REVISED: 03:06:04 06/28/2023
TDR: 000001211833
MODEL NO. 10LYE950
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6T CL.I, GRP. C&D, DRILL RIG
10LYE950

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
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BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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