ABB BALDOR RELIANCE

Customer information packet

CEM7056T-I

20//15 NEMA MG-1 PT.5, IP55HP, 1770//147
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	256TC
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	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	48.000 A @ 230.0 V
	52.000 A @ 208.0 V
	44.000 A @ 190.0 V
	24.000 A @ 460.0 V
	22.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	P
Type	AC
Mech. spec.	09F368
Base	
Status	PRD/A
Elec. spec.	09WGT459
Layout	09LYF368
Eff. date	02-21-2024
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	11-20-2017

Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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	22.0 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	X0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.00 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 NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 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
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.	09F368T459G1										
CAT.NO.	CEM7056T-I										
HP	20//15 NEMA MG-1 PT.5,IP55										
VOLTS	230/460//190/380										
AMPS	48/24//44/22										
RPM	1770//1470				**MOTOR WEIGHT**		339				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6309				
SER.F.	1.15	**DES**	A	**CODE**	J	**ODE BRG**	6208				
FRAME	256TC	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF		93	**PF**	83			
	55C AMB @ 1.0 SF,60C RISE										

AC Induction Motor Performance Data
Record # 68069
Typical performance - not guaranteed values

Winding: 09WGT459-R010	**Type:** 0960M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			20//15
Volts			230/460//190/380
Full Load Amps			48/24//44/22
R.P.M.			1770//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93	**Power Factor**	83
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	59.27 LB-FT
Start Configuration	direct on line
Breakdown Torque	232 LB-FT
Pull-up Torque	126 LB-FT
Locked-rotor Torque	141 LB-FT
Starting Current	198 A
No-load Current	10.4 A
Line-line Res. @ 25ºC	0.33814 Ω
Temp. Rise @ Rated Load	58°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	26.5

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	78	83	86	87	85
Efficiency	89.2	93	93.7	93.6	93.1	92.4	93.3
Speed	1793.2	1786.4	1779.1	1771.9	1763.7	1755.3	1767
Line amperes	11.8	15	19.2	24	29.3	34.9	27.2

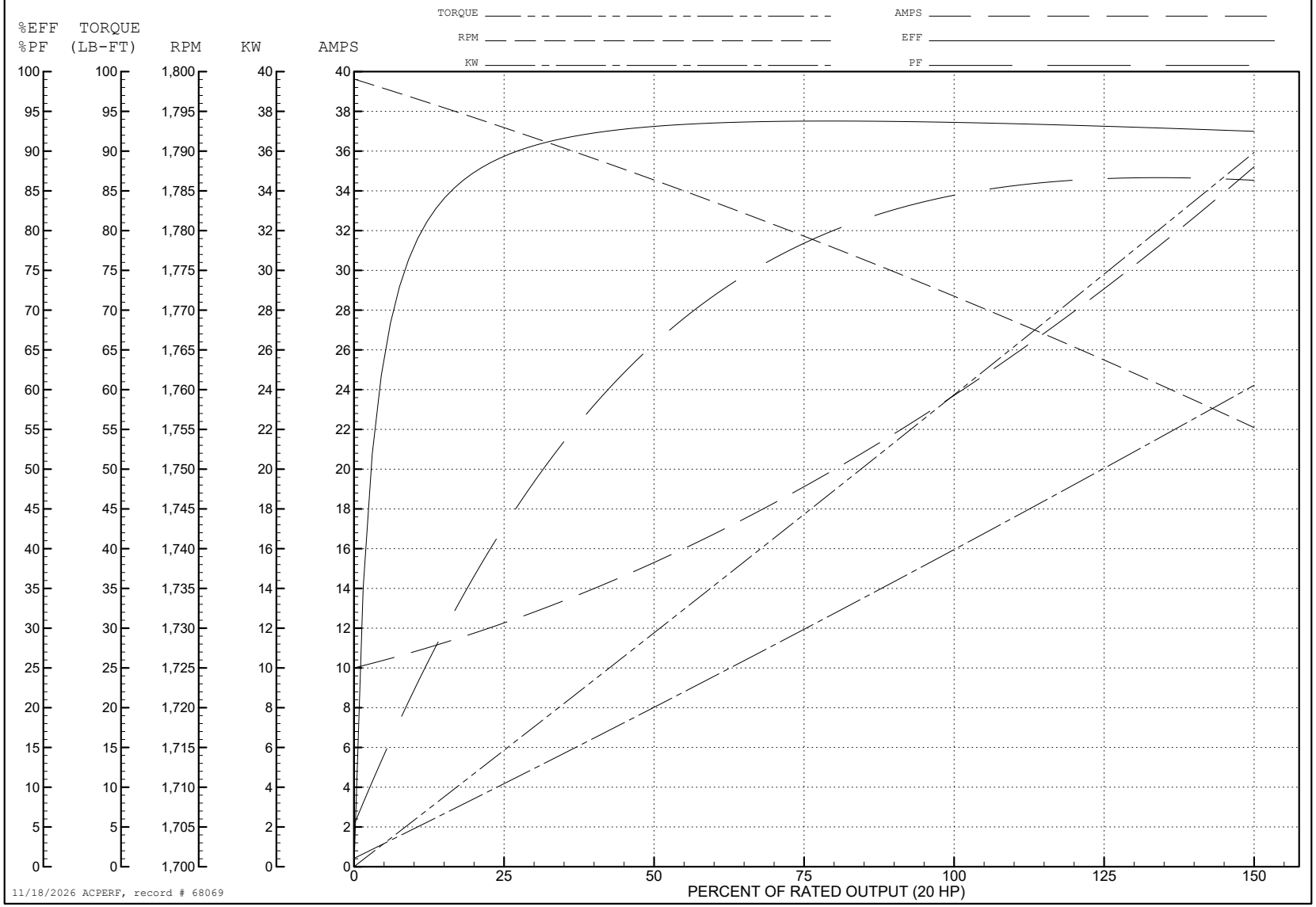
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WINDING # 09WGT459

20 HP 3 PH 60 HZ 1771.9 RPM 460 V 0960M

TORQUES(LB-FT): PO=232 PU=126 LR=141 LRA=198

Typical performance - not guaranteed values.



AC Induction Motor Performance Data
Record # 68070
Typical performance - not guaranteed values

Winding: 09WGT459-R010	**Type:** 0960M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			20//15
Volts			230/460//190/380
Full Load Amps			48/24//44/22
R.P.M.			1770//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93	**Power Factor**	83
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	53.45 LB-FT
Start Configuration	direct on line
Breakdown Torque	224 LB-FT
Pull-up Torque	131 LB-FT
Locked-rotor Torque	146 LB-FT
Starting Current	193 A
No-load Current	10.16 A
Line-line Res. @ 25ºC	0.316 Ω
Temp. Rise @ Rated Load	50°C
Temp. Rise @ S.F. Load	61°C
Locked-rotor Power Factor	29.3
Rotor inertia	2.65 LB-FT2

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	66	77	83	86	87	85
Efficiency	88	92.2	93.1	93.1	92.5	91.8	92.7
Speed	1494	1488	1481	1475	1467	1460	1470
Line amperes	11.32	14.06	17.76	22.07	26.82	31.83	24.9

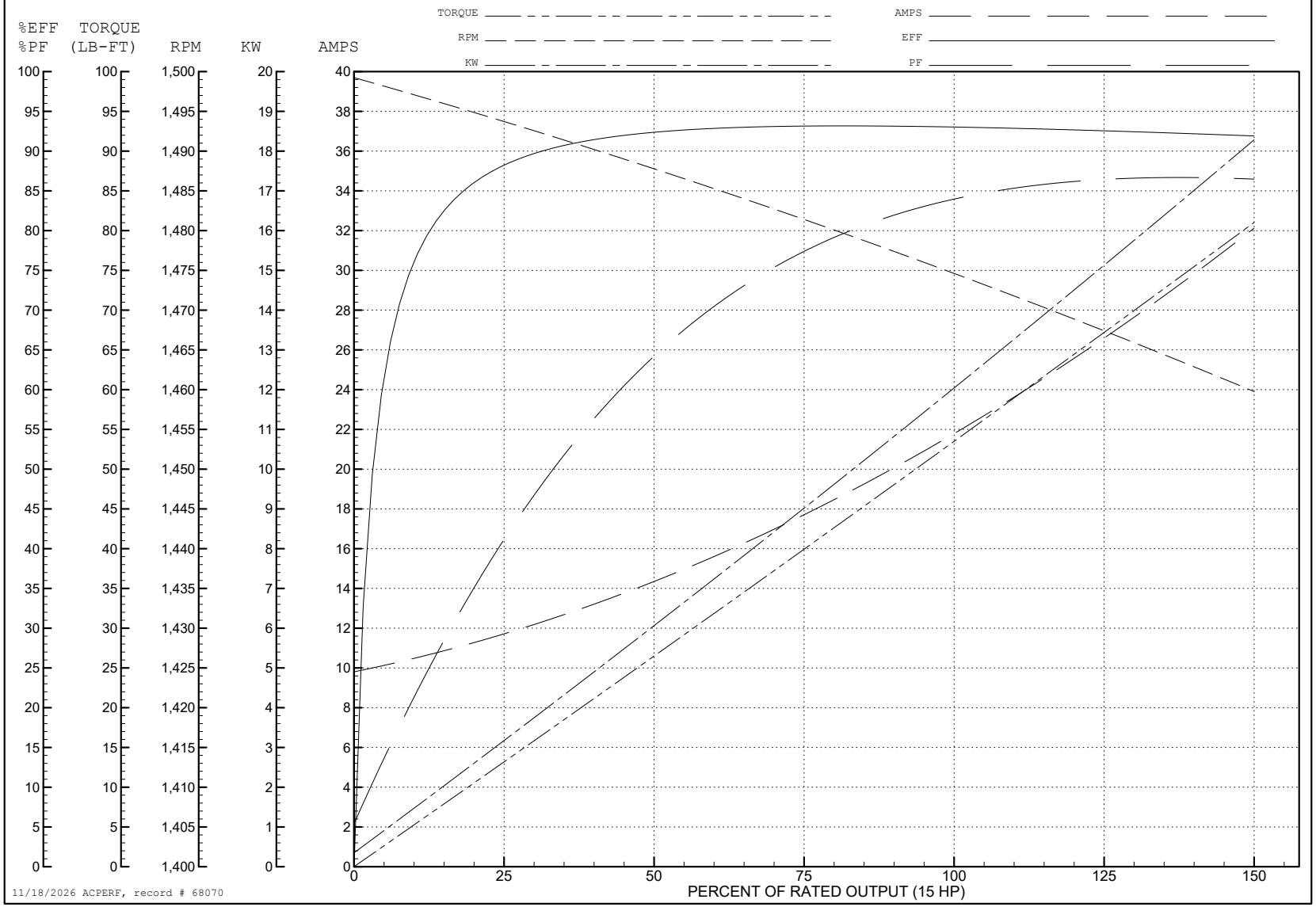
ABB Motors and Mechanical Inc.

WINDING # 09WGT459

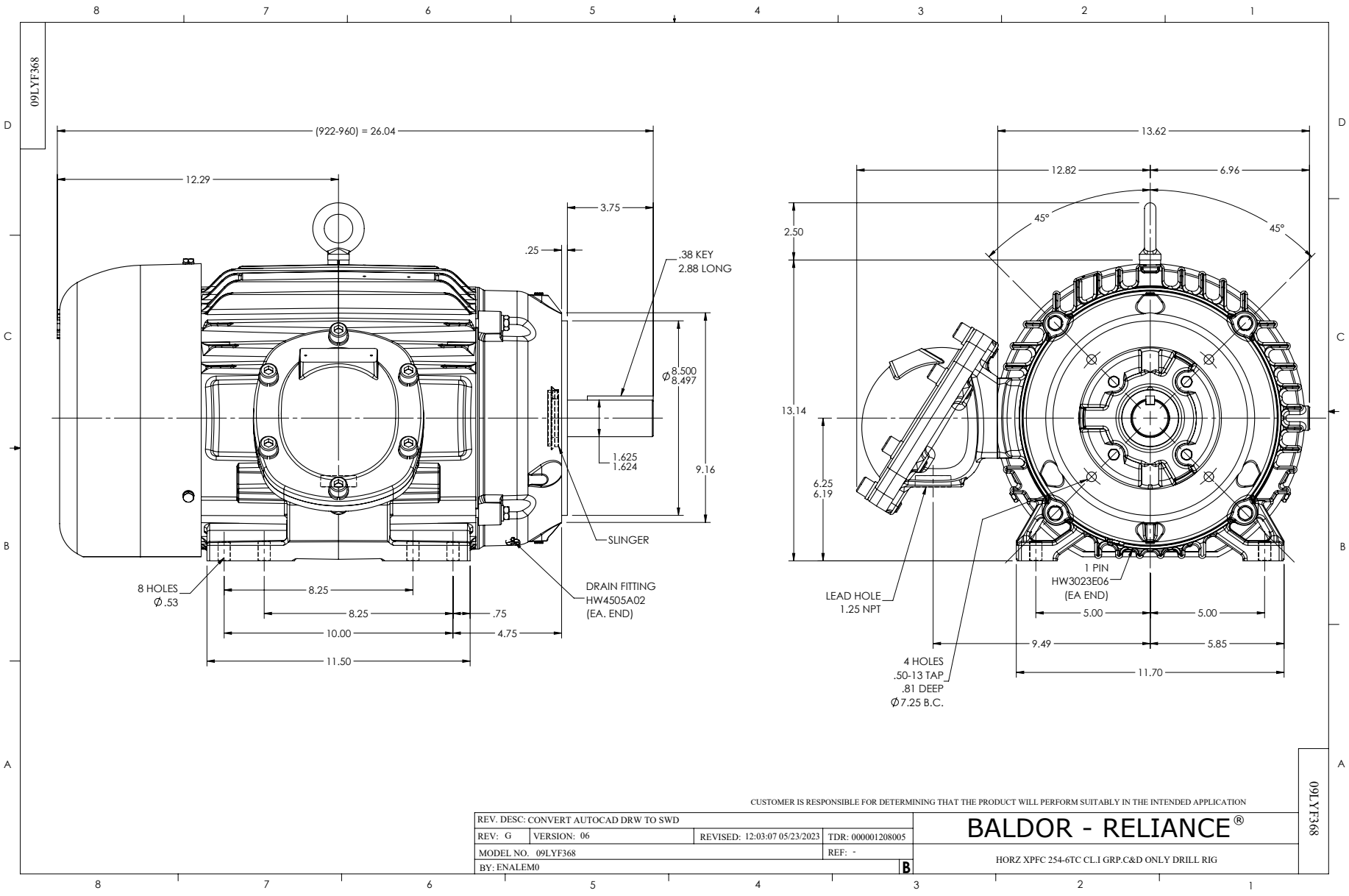
15 HP 3 PH 50 HZ 1475 RPM 380 V 0960M

Typical performance - not guaranteed values.

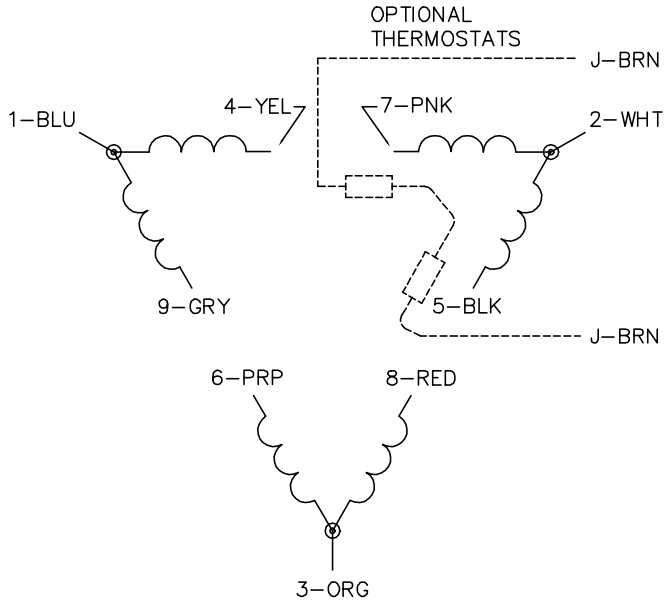
TORQUES(LB-FT): PO=224 PU=131 LR=146 LRA=193

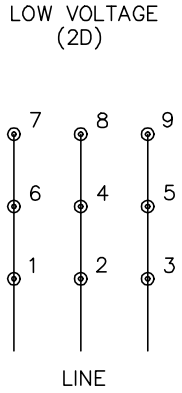


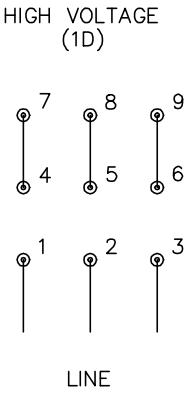
11/18/2026 ACPERF, record # 68070


09LYF368
(922-960) = 26.04
12.29
3.75
.25
.38 KEY
2.88 LONG
Ø 8.500
8.497
1.625
1.624
9.16
SLINGER
8 HOLES
Ø .53
8.25
8.25
.75
10.00
4.75
11.50
DRAIN FITTING
HW4505A02
(EA. END)
13.62
12.82
6.96
45°
45°
2.50
13.14
6.25
6.19
1 PIN
HW3023E06
(EA END)
LEAD HOLE
1.25 NPT
5.00
5.00
9.49
5.85
11.70
4 HOLES
.50-13 TAP
.81 DEEP
Ø 7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: G
VERSION: 06
REVISED: 12:03:07 05/23/2023
TDR: 000001208005
MODEL NO. 09LYF368
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 254-6TC CL.I GRP.C&D ONLY DRILL RIG
09LYF368

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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