ABB BALDOR RELIANCE

Customer information packet

EM7054T-C

15//10HP, 1765//1470RPM, 3PH, 60//50HZ, 254T
Class - CLI GP C,D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	254T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
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	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	38.000 A @ 208.0 V
	36.200 A @ 230.0 V
	30.400 A @ 190.0 V
	18.100 A @ 460.0 V
	15.200 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	R
Type	AC
Mech. spec.	09F101
Base	
Status	PRD/A
Elec. spec.	09WGZ910
Layout	09LYF101
Eff. date	04-09-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	06-03-2015

Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	15.2 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.50 IN
Power Factor	83
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1470 rpm
	1765 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

NP0978XPSL											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T4				
SPEC.	09F101Z910G1										
CAT.NO.											
HP	15//10										
VOLTS	230/460//190/380										
AMPS	36.2/18.1//30.4/15.2										
RPM	1765//1470				**MOTOR WEIGHT**		373				
HERTZ	60//50	**PH**	3	**CL**	B	**DE BRG**	6309				
SER.F.	1.00	**DES**	A	**CODE**	H	**ODE BRG**	6208				
FRAME	254T	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF		92.4	**PF**	83			

AC Induction Motor Performance Data
Record # 51147
Typical performance - not guaranteed values

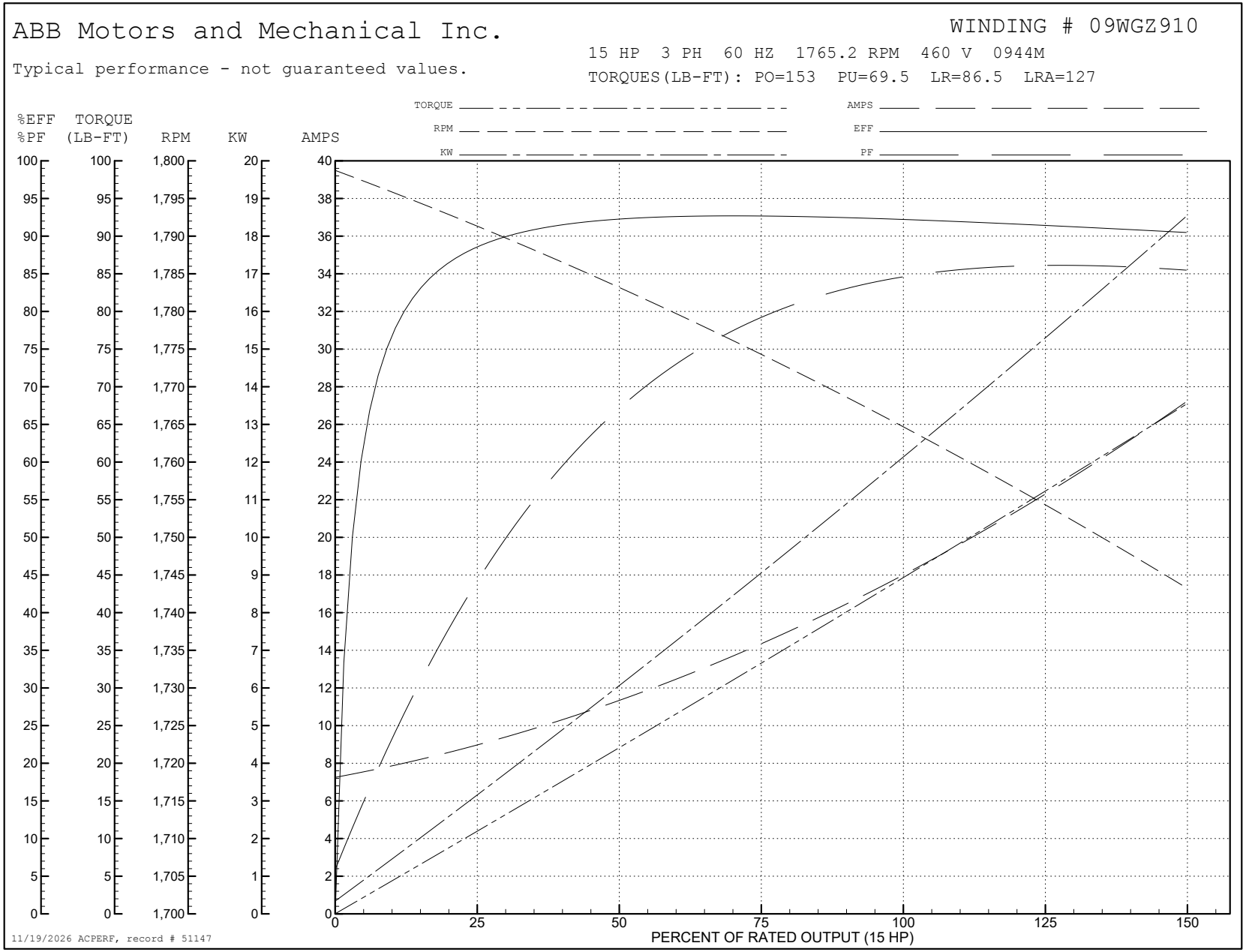
Winding: 09WGZ910-R043	**Type:** 0944M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			15//10
Volts			230/460//190/380
Full Load Amps			36.2/18.1//30.4/15.2
R.P.M.			1765//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	92.4	**Power Factor**	83
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	44.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	153 LB-FT
Pull-up Torque	69.5 LB-FT
Locked-rotor Torque	86.5 LB-FT
Starting Current	127 A
No-load Current	7.56 A
Line-line Res. @ 25ºC	0.59555 Ω
Temp. Rise @ Rated Load	54°C
Locked-rotor Power Factor	33
Rotor inertia	1.92 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	45	69	79	83	85	87
Efficiency	88.2	92.2	92.7	92.4	91.5	90.4
Speed	1791.3	1783.1	1774	1765.2	1754.6	1743.1
Line amperes	8.62	11	14.5	18.1	22.6	26.9


ABB Motors and Mechanical Inc.
WINDING # 09WGZ910
Typical performance - not guaranteed values.
15 HP 3 PH 60 HZ 1765.2 RPM 460 V 0944M
TORQUES(LB-FT): PO=153 PU=69.5 LR=86.5 LRA=127
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/19/2026 ACPERF, record # 51147

AC Induction Motor Performance Data
Record # 51148
Typical performance - not guaranteed values

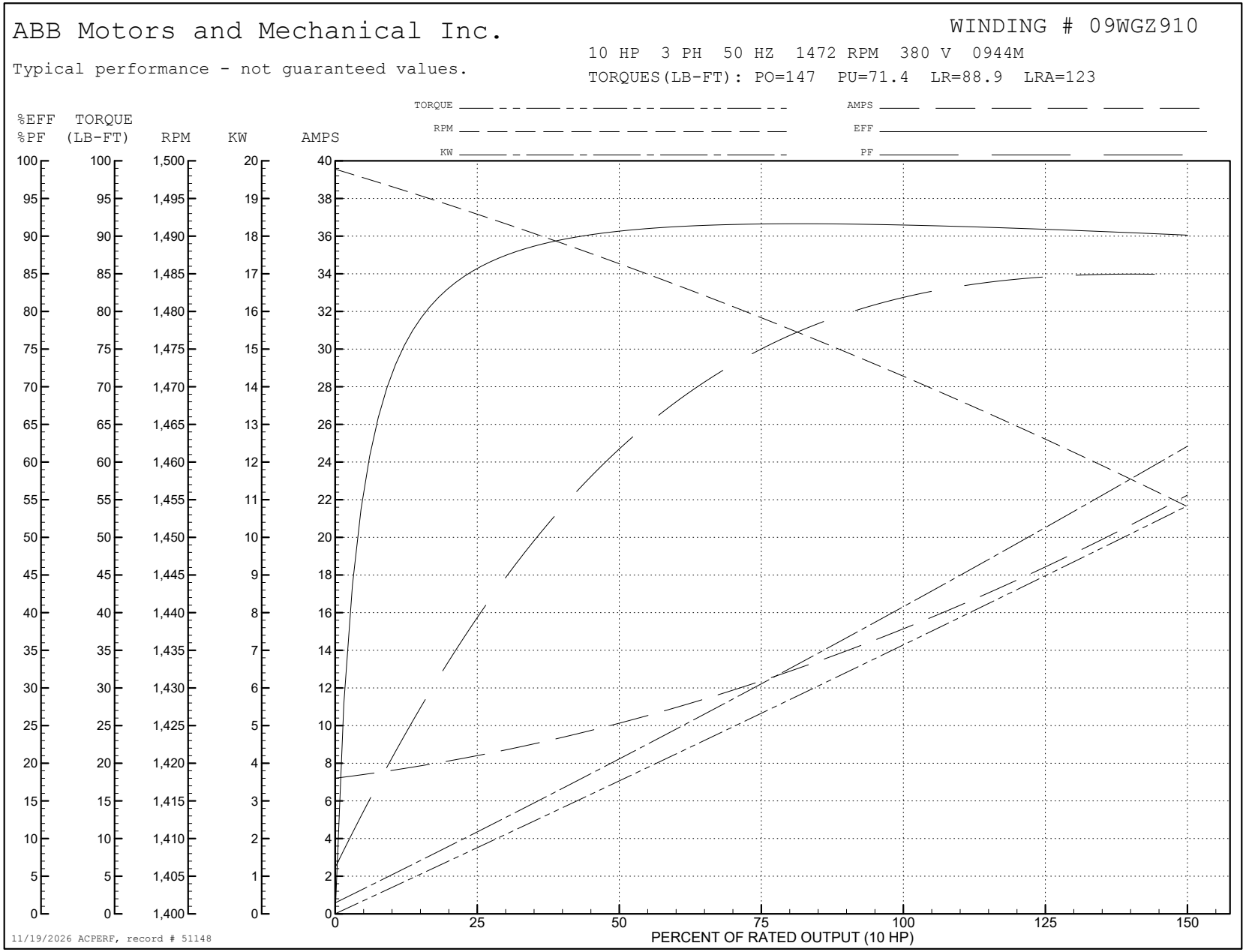
Winding: 09WGZ910-R043	**Type:** 0944M	**Enclosure:** XPFC

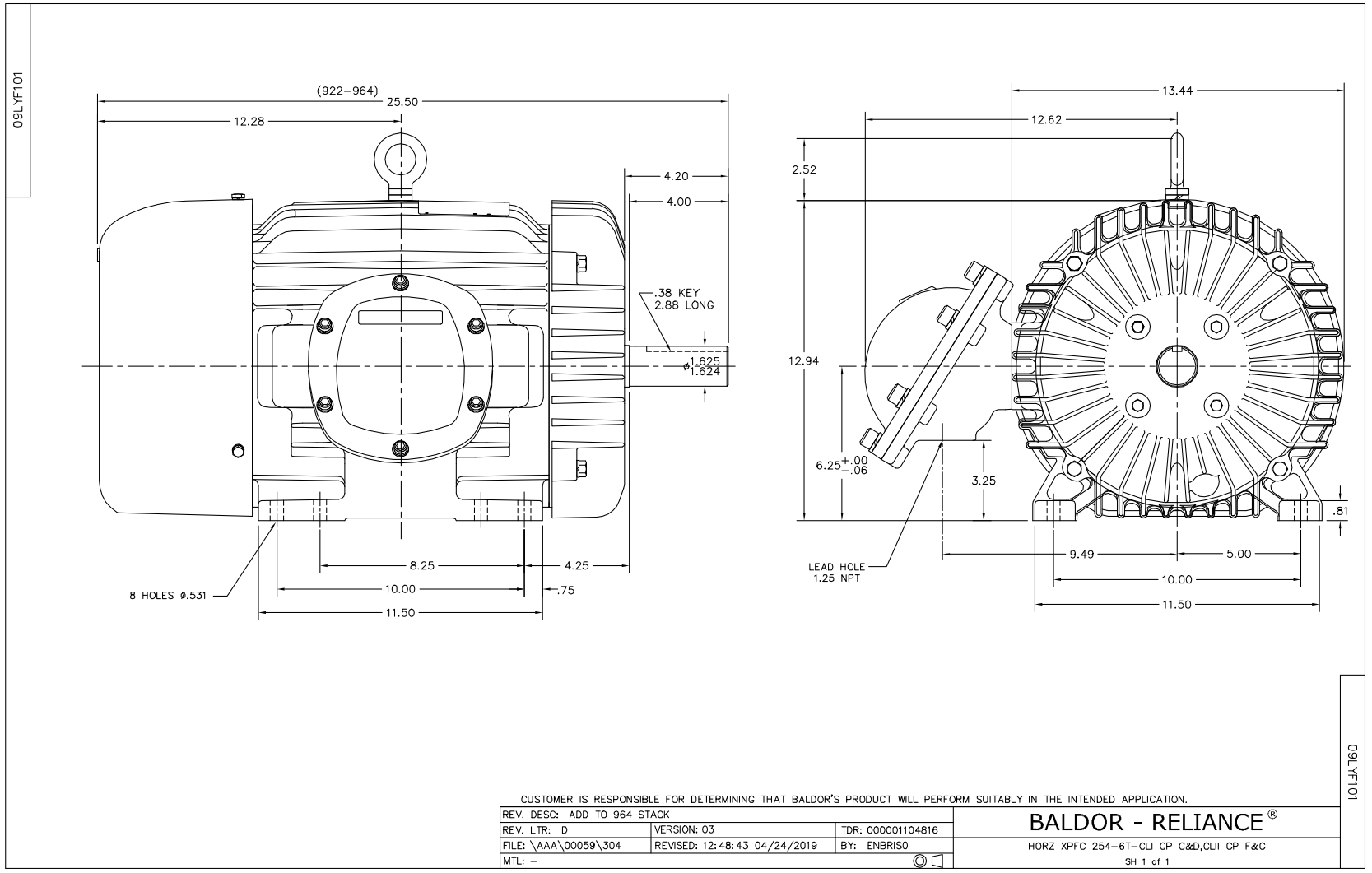
Nameplate Data			
Rated Output (HP)			15//10
Volts			230/460//190/380
Full Load Amps			36.2/18.1//30.4/15.2
R.P.M.			1765//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	92.4	**Power Factor**	83
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	35.6 LB-FT
Start Configuration	direct on line
Breakdown Torque	147 LB-FT
Pull-up Torque	71.4 LB-FT
Locked-rotor Torque	88.9 LB-FT
Starting Current	123 A
No-load Current	7.43 A
Line-line Res. @ 25ºC	0.559 Ω
Temp. Rise @ Rated Load	41°C
Locked-rotor Power Factor	36.7
Rotor inertia	1.92 LB-FT2

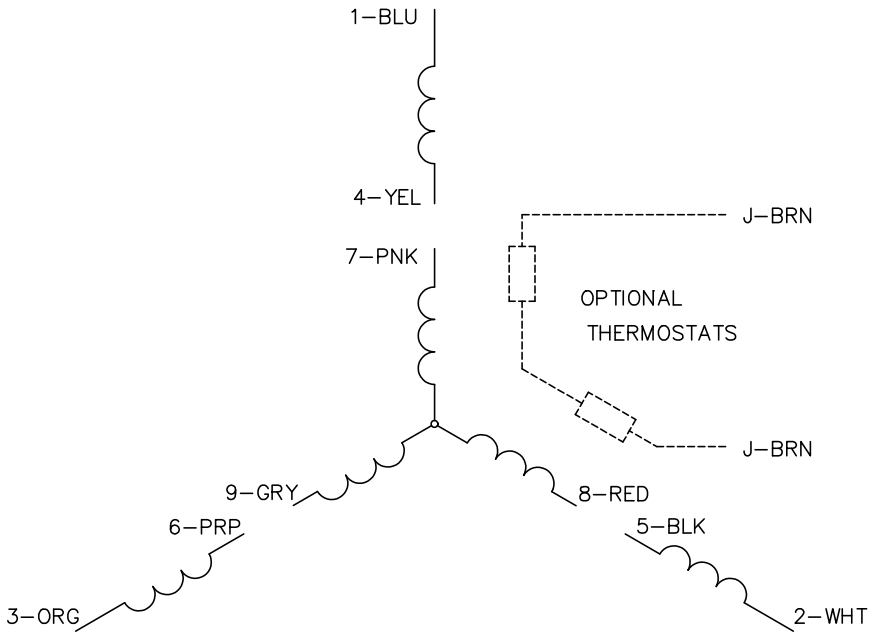
Load Characteristics 380 V, 50 Hz, 10 HP

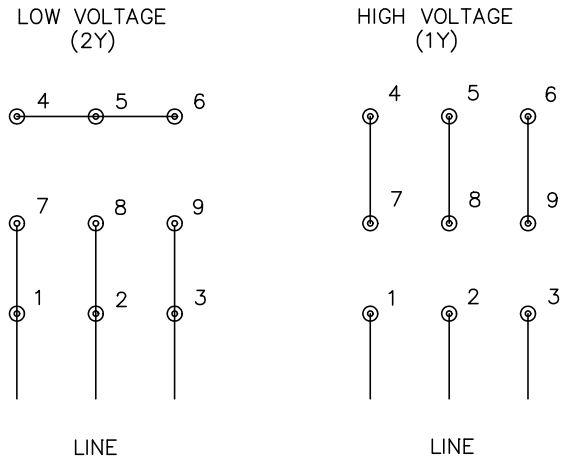
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	40	63	74	81	83	86
Efficiency	85.2	90.8	91.6	91.6	90.9	90.2
Speed	1493	1486	1479	1472	1463	1454
Line amperes	8.17	9.86	12.5	15.2	18.7	22


ABB Motors and Mechanical Inc.
WINDING # 09WGZ910
Typical performance - not guaranteed values.
10 HP 3 PH 50 HZ 1472 RPM 380 V 0944M
TORQUES(LB-FT): PO=147 PU=71.4 LR=88.9 LRA=123
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/19/2026 ACPERF, record # 51148


09LYF101
(922-964)
25.50
12.28
4.20
4.00
.38 KEY
2.88 LONG
ø1.625
1.624
8 HOLES ø.531
8.25
4.25
10.00
.75
11.50
13.44
12.62
2.52
12.94
6.25 +.00 -.06
3.25
.81
LEAD HOLE
1.25 NPT
9.49
5.00
10.00
11.50
101LYF09
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: ADD TO 964 STACK
REV. LTR: D
VERSION: 03
TDR: 000001104816
FILE: \AAA\00059\304
REVISED: 12:48:43 04/24/2019
BY: ENBRISO
MTL: -
BALDOR - RELIANCE®
HORZ XPFC 254-6T-CLI GP C&D,CLII GP F&G
SH 1 of 1

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