ABB BALDOR RELIANCE

Customer information packet

VDRX251544T

15HP, 1765//1470RPM, 3PH, 60/50HZ, 254TC, XPF
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	254TC
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	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
	UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
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

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ910
Layout	09LYF525
Eff. date	04-09-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	06-06-2019

Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	15.2 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.00 IN
Power Factor	83
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	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

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	09-0000-1464			**INV.TYPE**	PWM						
CAT.NO.	VDRX251544T			**C HP FR**	60	**C HP TO**	90				
HP	15//10			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	36.2/18.1//30.4/15.2			**MAG CUR**	15/7.5						
RPM	1765//1470			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	92.4				
SER.F.	1.00	**DES**	A	**SL HZ**	1.2	**WK2**	1.93				
FRAME	254TC	**RATING**	40C AMB-CONT								
	55C AMB @ 1.00 SF, 60C RISE										
	1.15SF ON SINEWAVE				NEMA MG-1 PT.5,IP55						

AC Induction Motor Performance Data
Record # 51149
Typical performance - not guaranteed values

Winding: 09WGZ910-R044	**Type:** 0944M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			36.2/18.1	**Breakdown Torque**	153 LB-FT
R.P.M.			1765	**Pull-up Torque**	69.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	86.5 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	127 A
Service Factor (S.F.)			1	**No-load Current**	7.56 A
NEMA Nom. Eff.	92.4	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.59555 Ω
Rating - Duty			40C AMB-CONT	**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

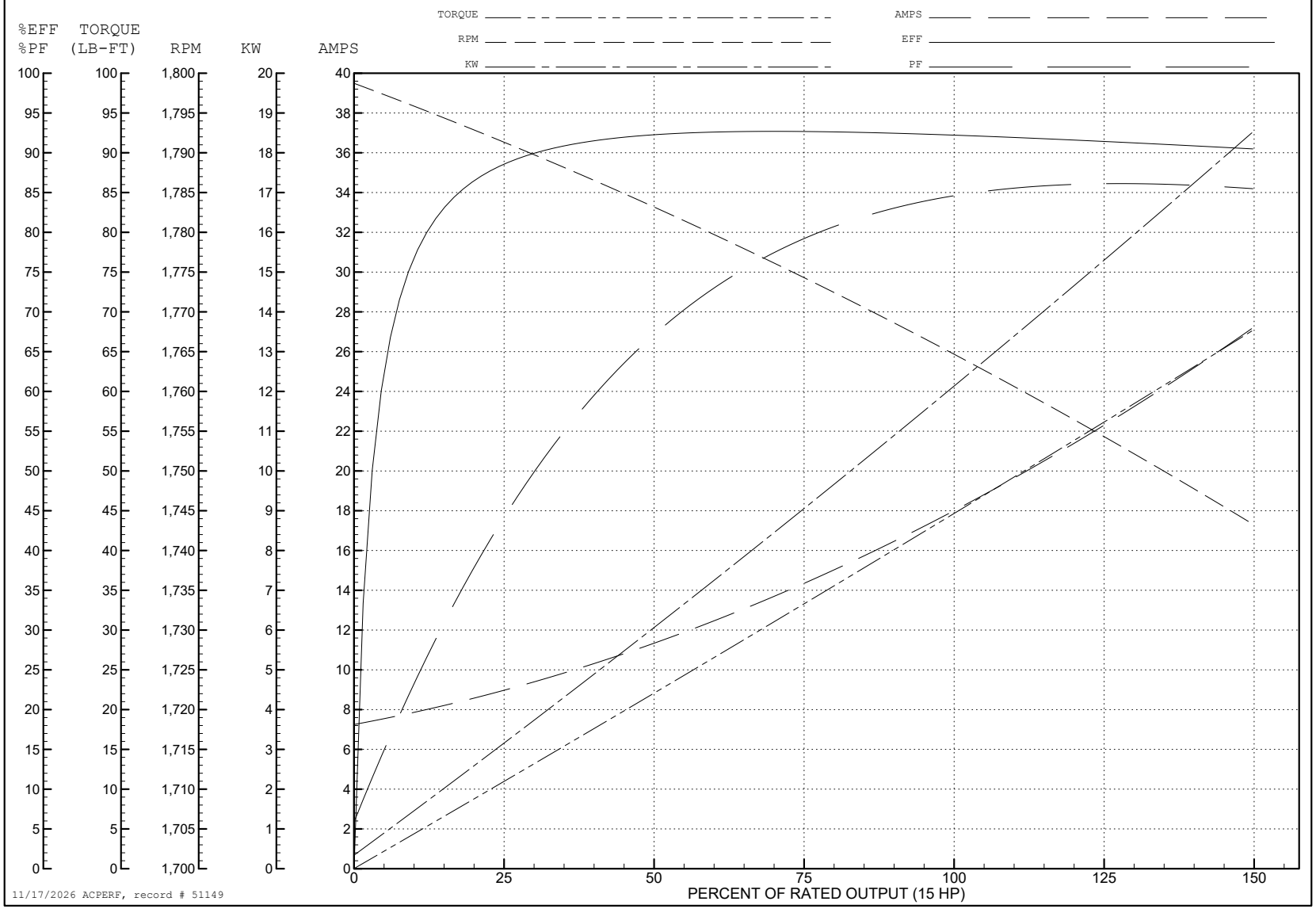
ABB Motors and Mechanical Inc.

WINDING # 09WGZ910

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=153 PU=69.5 LR=86.5 LRA=127



AC Induction Motor Performance Data
Record # 75708
Typical performance - not guaranteed values

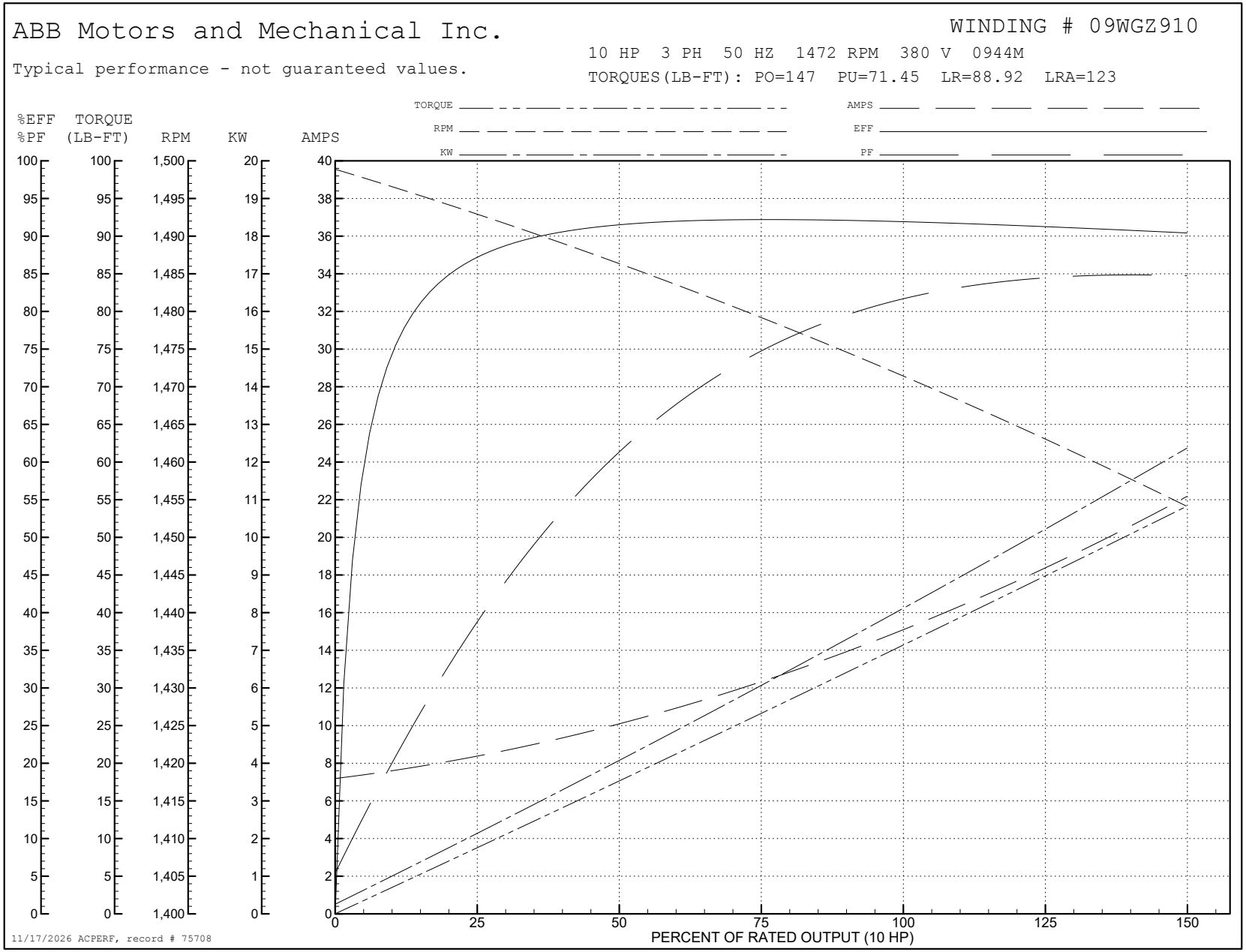
Winding: 09WGZ910-R063	**Type:** 0944M	**Enclosure:** XPFC

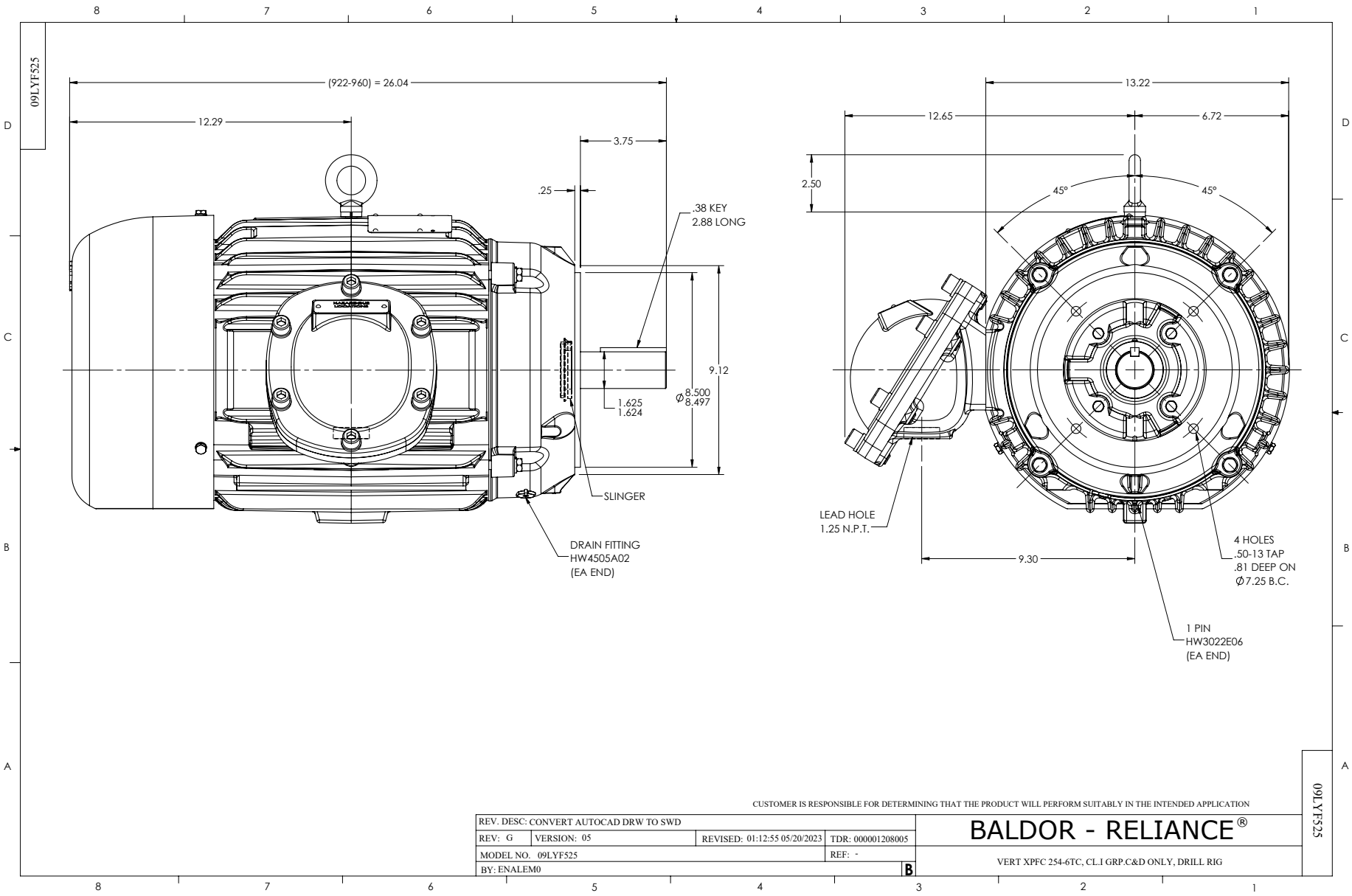
Nameplate Data			
Rated Output (HP)			15//10
Volts			230/460//190/380
Full Load Amps			36.2/18.1//30.4/15.2
R.P.M.			1765//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	92.4	**Power Factor**	83
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	35.63 LB-FT
Start Configuration	direct on line
Breakdown Torque	147 LB-FT
Pull-up Torque	71.45 LB-FT
Locked-rotor Torque	88.92 LB-FT
Starting Current	123 A
No-load Current	7.42 A
Line-line Res. @ 25ºC	0.553 Ω
Temp. Rise @ Rated Load	41°C
Locked-rotor Power Factor	36.5
Rotor inertia	1.92 lb-ft²

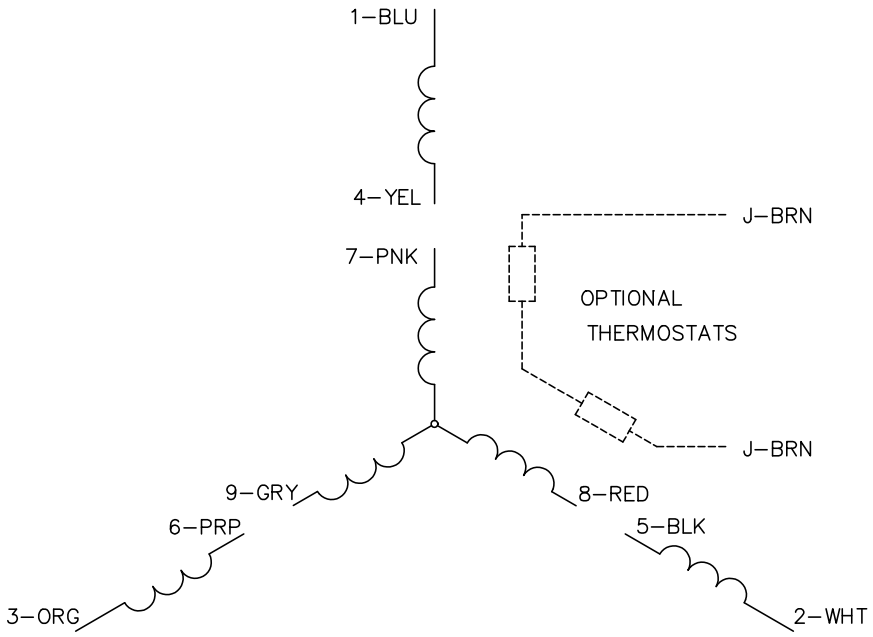
Load Characteristics 380 V, 50 Hz, 10 HP

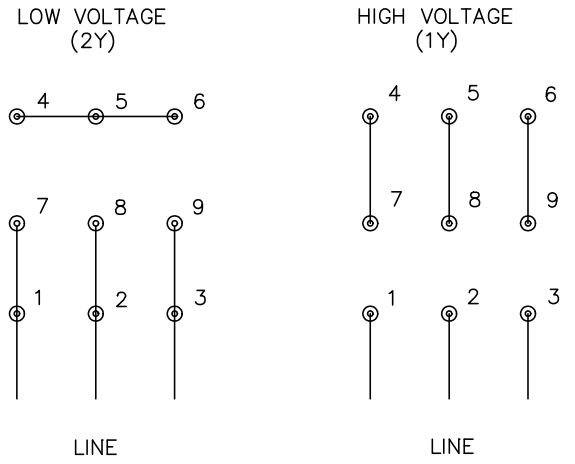
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	40	63	74	81	83	86
Efficiency	86.7	91.4	92.1	92	91.2	90.3
Speed	1493	1486	1479	1472	1463	1454
Line amperes	8.14	9.82	12.46	15.18	18.67	21.93


ABB Motors and Mechanical Inc.
WINDING # 09WGZ910
10 HP 3 PH 50 HZ 1472 RPM 380 V 0944M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=147 PU=71.45 LR=88.92 LRA=123
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/17/2026 ACPERF, record # 75708


09LYF525
(922-960) = 26.04
12.29
3.75
.25
.38 KEY
2.88 LONG
9.12
1.625
1.624
Ø8.500
8.497
SLINGER
DRAIN FITTING
HW4505A02
(EA END)
13.22
12.65
6.72
2.50
45°
45°
LEAD HOLE
1.25 N.P.T.
9.30
4 HOLES
.50-13 TAP
.81 DEEP ON
Ø7.25 B.C.
1 PIN
HW3022E06
(EA END)
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: 05
REVISED: 01:12:55 05/20/2023
TDR: 000001208005
MODEL NO. 09LYF525
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT XPFC 254-6TC, CL.I GRP.C&D ONLY, DRILL RIG
09LYF525

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