BALDOR • RELIANCE

Customer information packet

CDRX25764T

7.5HP, 1180//980RPM, 3PH, 60/50HZ, 254TC, XPF
Class - CLI GP C,D
Division - Division I

12/23/2025 12:34:29 AM

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	5.000 HP @ 50 HZ
	7.500 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
	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
Constant Torque Speed Range	6
Current @ Voltage	9.600 A @ 380.0 V
	23.000 A @ 208.0 V
	22.000 A @ 230.0 V
	19.200 A @ 190.0 V
	11.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover

Part detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT118
Layout	09LYF368
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	06-04-2019

Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	9.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	26.00 IN
Power Factor	70
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	1180 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.	09-0000-1446			**INV.TYPE**	PWM						
CAT.NO.	CDRX25764T			**C HP FR**	60	**C HP TO**	90				
HP	7.5//5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	22/11//19.2/9.6			**MAG CUR**							
RPM	1180//980			**MX RPM**	1800						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91				
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	4.34				
FRAME	254TC	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE			NEMA MG-1 PT.5,IP55							

AC Induction Motor Performance Data
Record # 57230
Typical performance - not guaranteed values

Winding: 09WGT118-R011	**Type:** 0954M	**Enclosure:** XPFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		7.5	**Full Load Torque**	33.3 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		22/11	**Breakdown Torque**	106 LB-FT
R.P.M.		1180	**Pull-up Torque**	41.4 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	62.8 LB-FT
NEMA Design Code	A **KVA Code**	J	**Starting Current**	75.7 A
Service Factor (S.F.)		1	**No-load Current**	5.97 A
NEMA Nom. Eff.	91 **Power Factor**	70	**Line-line Res. @ 25ºC**	0.895 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
			Locked-rotor Power Factor	25.8
			Rotor inertia	4.34 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	34	53	64	70	74	75
Efficiency	81.3	88	89.6	89.7	89.4	88.3
Speed	1196	1192	1187	1183	1177	1171
Line amperes	6.46	7.57	9.19	11.2	13.3	15.9

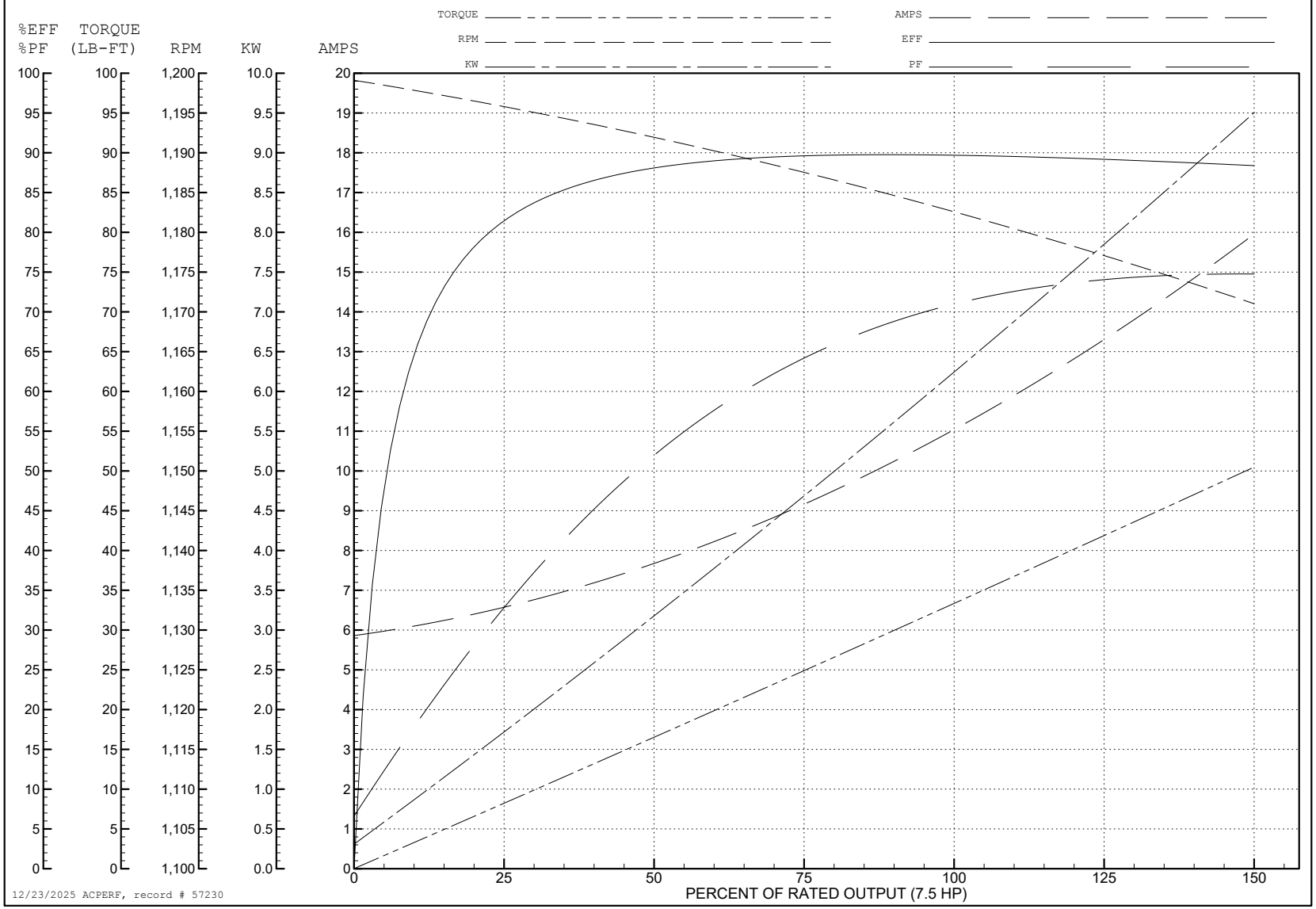
ABB Motors and Mechanical Inc.

WINDING # 09WGT118

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=106 PU=41.4 LR=62.8 LRA=75.7



AC Induction Motor Performance Data
Record # 75705
Typical performance - not guaranteed values

Winding: 09WGT118-R007	**Type:** 0954M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			7.5//5	**Full Load Torque**	26.49 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			22/11//19.2/9.6	**Breakdown Torque**	109 LB-FT
R.P.M.			1180//980	**Pull-up Torque**	43.5 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	60.46 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	73.36 A
Service Factor (S.F.)			1	**No-load Current**	6 A
NEMA Nom. Eff.	91	**Power Factor**	70	**Line-line Res. @ 25ºC**	0.895 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	28°C
S.F. Amps				**Temp. Rise @ S.F. Load**	34°C
				Locked-rotor Power Factor	28.9
				Rotor inertia	4.34 LB-FT2

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	28	46	58	65	71	74
Efficiency	81.2	87.9	90.1	90.6	90.3	89.6
Speed	997	994	990	987	983	979
Line amperes	6.29	7.06	8.13	9.52	11.08	12.87

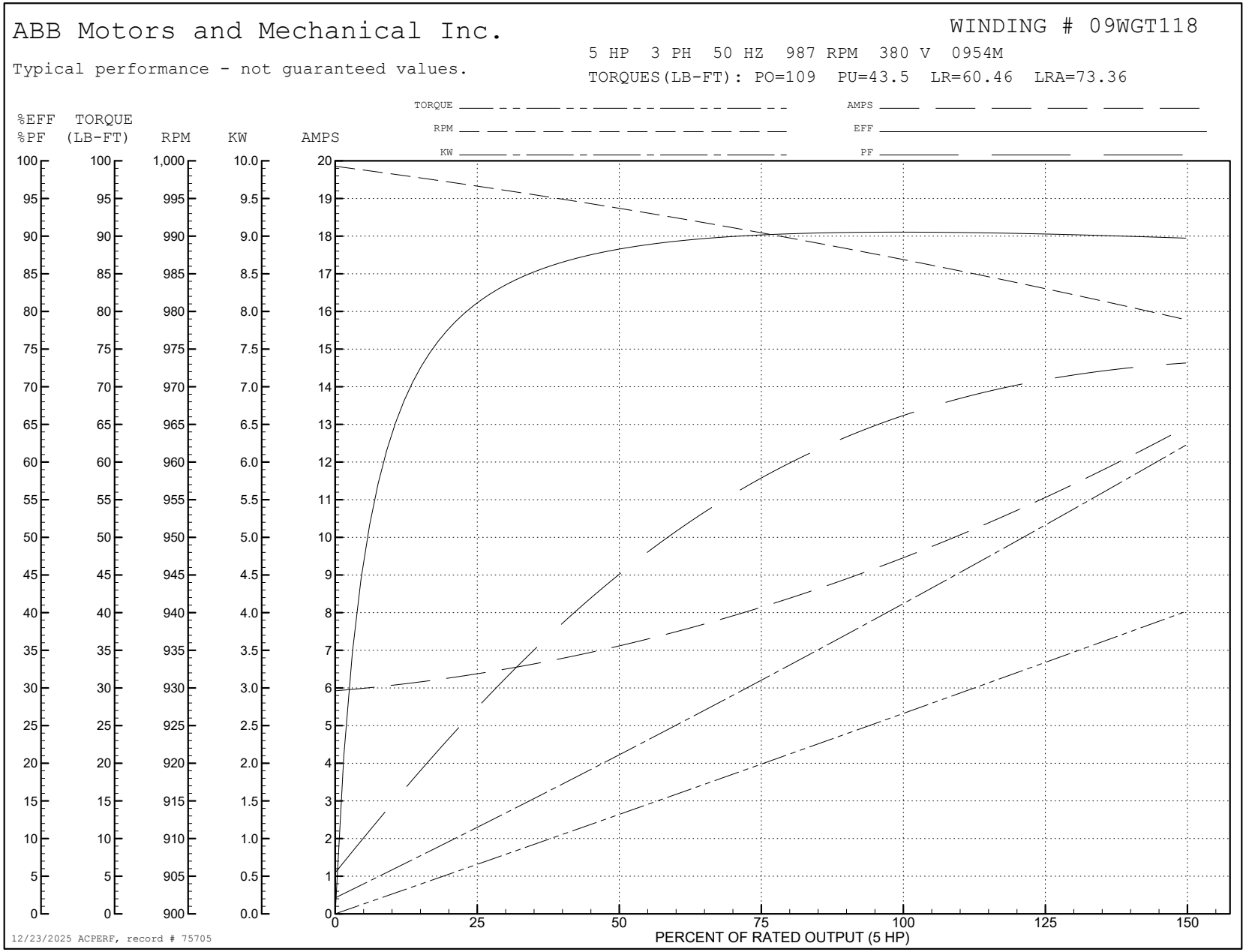
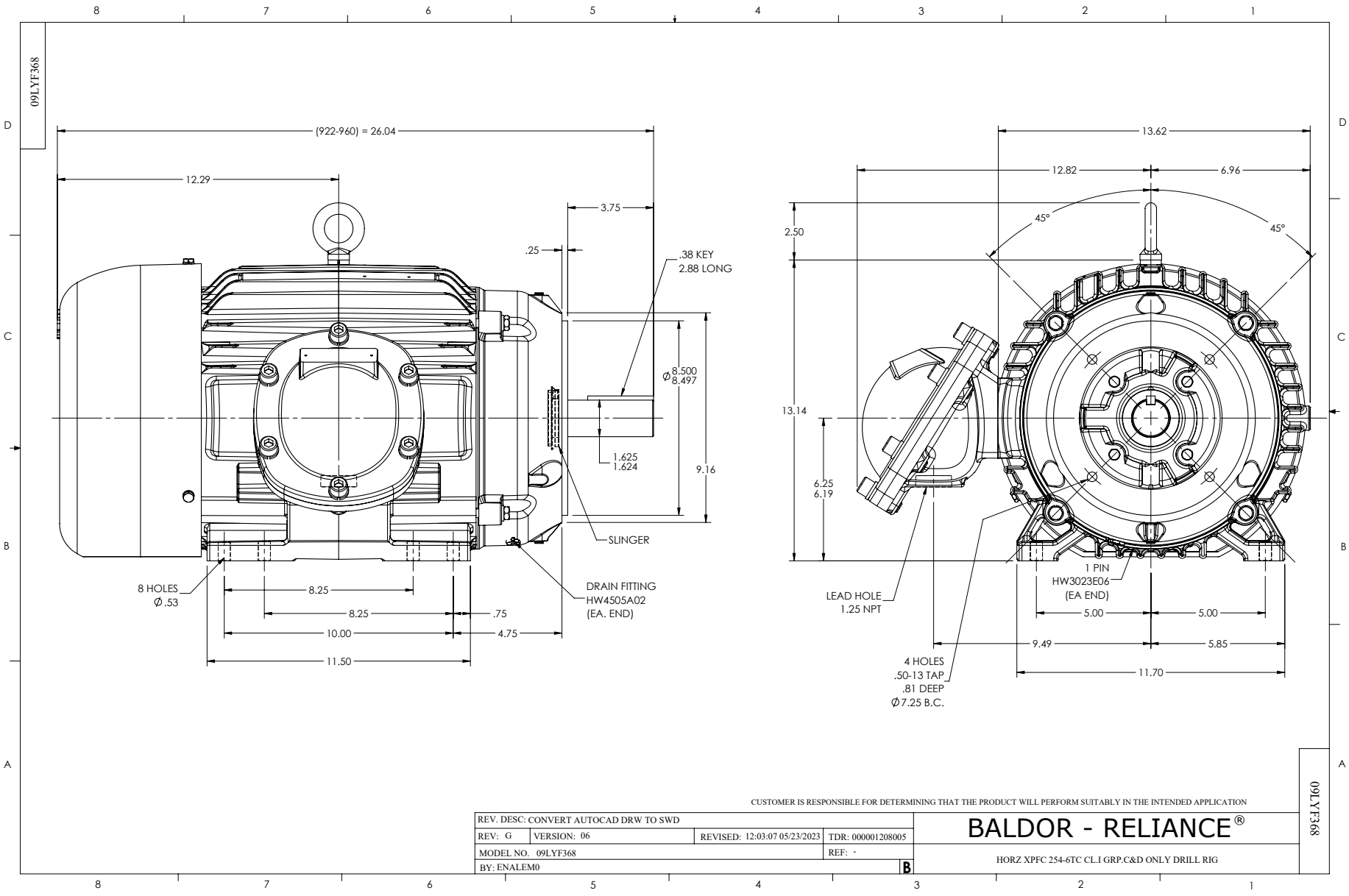
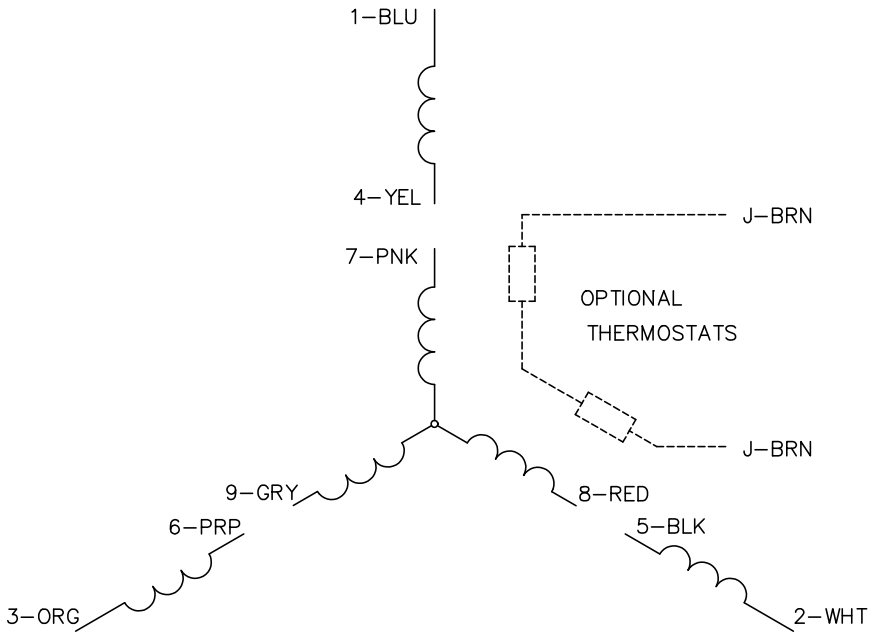
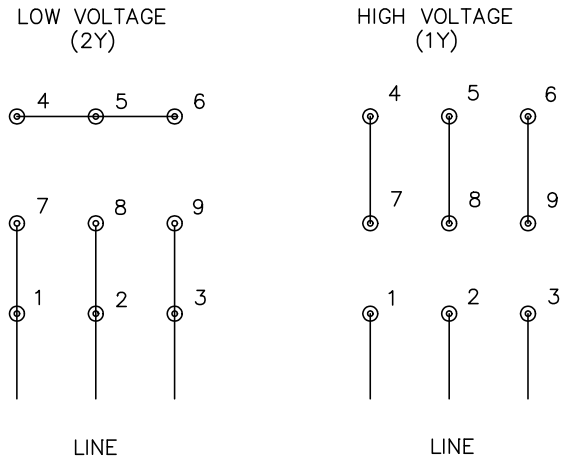


ABB Motors and Mechanical Inc.
WINDING # 09WGT118
5 HP 3 PH 50 HZ 987 RPM 380 V 0954M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=109 PU=43.5 LR=60.46 LRA=73.36
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
12/23/2025 ACPERF, record # 75705


09LYF368
(922-960) = 26.04
12.29
3.75
.25
.38 KEY
2.88 LONG
Ø8.500
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
Ø7.25 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

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