ABB BALDOR RELIANCE

Customer information packet

XM251542T

15//10HP, 1765//1470RPM, 3PH, 60//50HZ, 254T
Class - CLI GP 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 D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
	10.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 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	38.000 A @ 208.0 V
	36.200 A @ 230.0 V
	30.400 A @ 190.0 V
	18.100 A @ 460.0 V
	15.100 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	G
Type	AC
Mech. spec.	09E270
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYE270
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	15.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
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	84
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	None
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
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

NP0887XPSLEV										
NO.				**CC**	010A					
S/N				**TEMP CODE**	T3C					
SPEC.	09E270T597G3			**INV.TYPE**	PWM					
CAT.NO.	XM251542T			**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//30.4/15.1		**MAG CUR**	14.6/7.3						
RPM	1765//1470		**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	92.4			
SER.F.	1.15	**DES**	A	**SL HZ**	1.2	**WK2**	1.93			
FRAME	254T	**RATING**	40C AMB-CONT							
	55C AMB @1.0SF ON VFD,60C RISE									
	NEMA MG-1 PT.5,IP54									

AC Induction Motor Performance Data
Record # 86566
Preliminary Data Sheet

Winding: 09WGT597-R012	**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**	154 LB-FT
R.P.M.			1765	**Pull-up Torque**	67.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	83.5 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	129 A
Service Factor (S.F.)			1.15	**No-load Current**	7.32 A
NEMA Nom. Eff.	92.4	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.61 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	52°C
S.F. Amps			41/20.5	**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	38.1
				Rotor inertia	1.92 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	69	79	84	86	87	86
Efficiency	88	92.1	92.7	92.5	91.7	90.7	91.9
Speed	1792	1785	1777	1768	1759	1749	1761
Line amperes	8.45	11	14.3	18.1	22.2	26.7	20.5

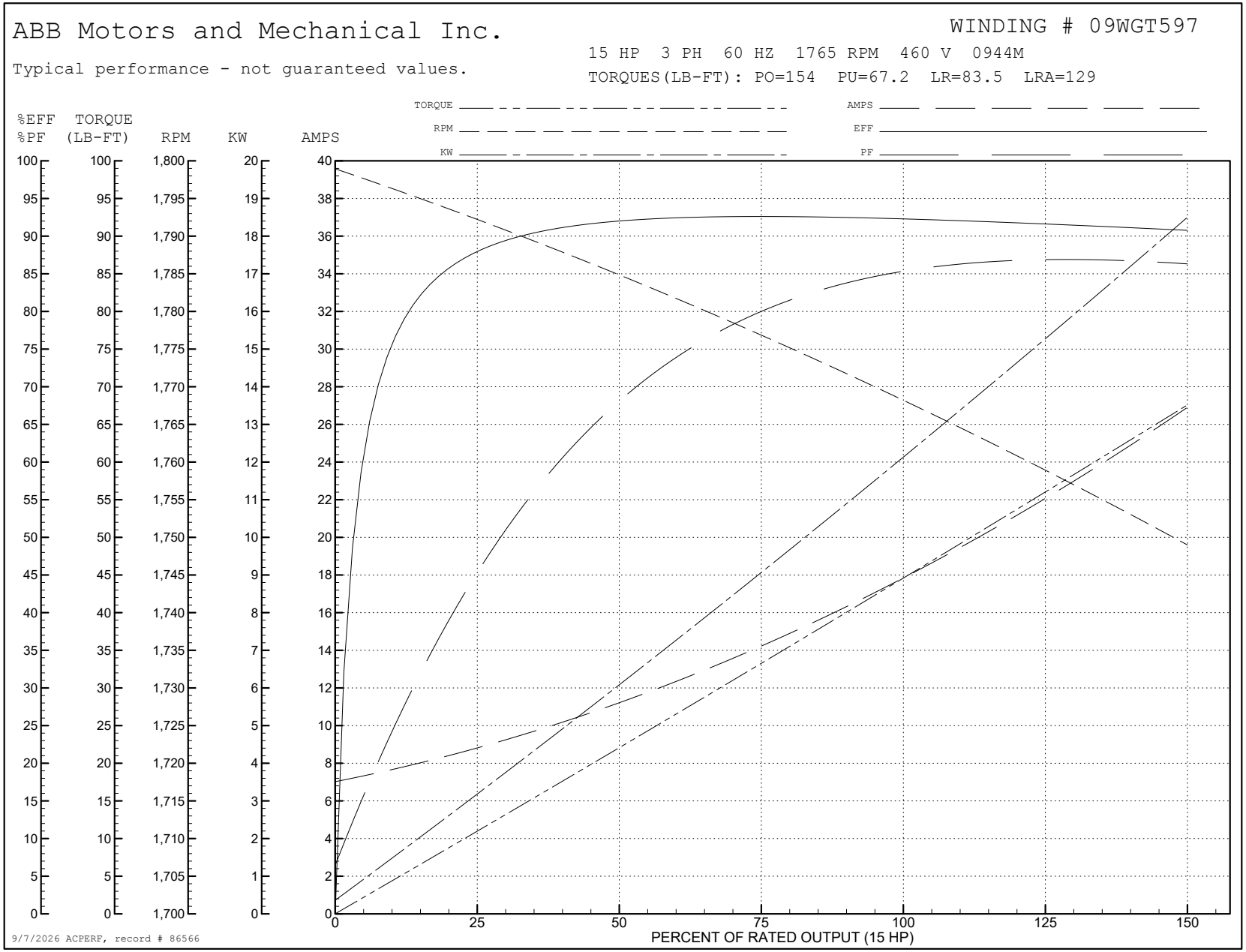


ABB Motors and Mechanical Inc.
WINDING # 09WGT597
Typical performance - not guaranteed values.
15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M
TORQUES(LB-FT): PO=154 PU=67.2 LR=83.5 LRA=129
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
9/7/2026 ACPERF, record # 86566

AC Induction Motor Performance Data
Record # 86567
Preliminary Data Sheet

Winding: 09WGT597-R012	**Type:** 0944M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	35.7 LB-FT
Volts			190/380	**Start Configuration**	direct on line
Full Load Amps			30.2/15.1	**Breakdown Torque**	153 LB-FT
R.P.M.			1470	**Pull-up Torque**	51.8 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	72 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	123 A
Service Factor (S.F.)			1.15	**No-load Current**	6.49 A
NEMA Nom. Eff.	91	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.61 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps			33.2/16.6	**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	38.1
				Rotor inertia	1.92 lb-ft²

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	78	84	86	87	85
Efficiency	86	91.1	92.2	92.2	91.7	90.9	91.9
Speed	1494	1488	1481	1474	1467	1459	1469
Line amperes	7.36	9.3	11.9	14.9	17.9	21.4	16.6

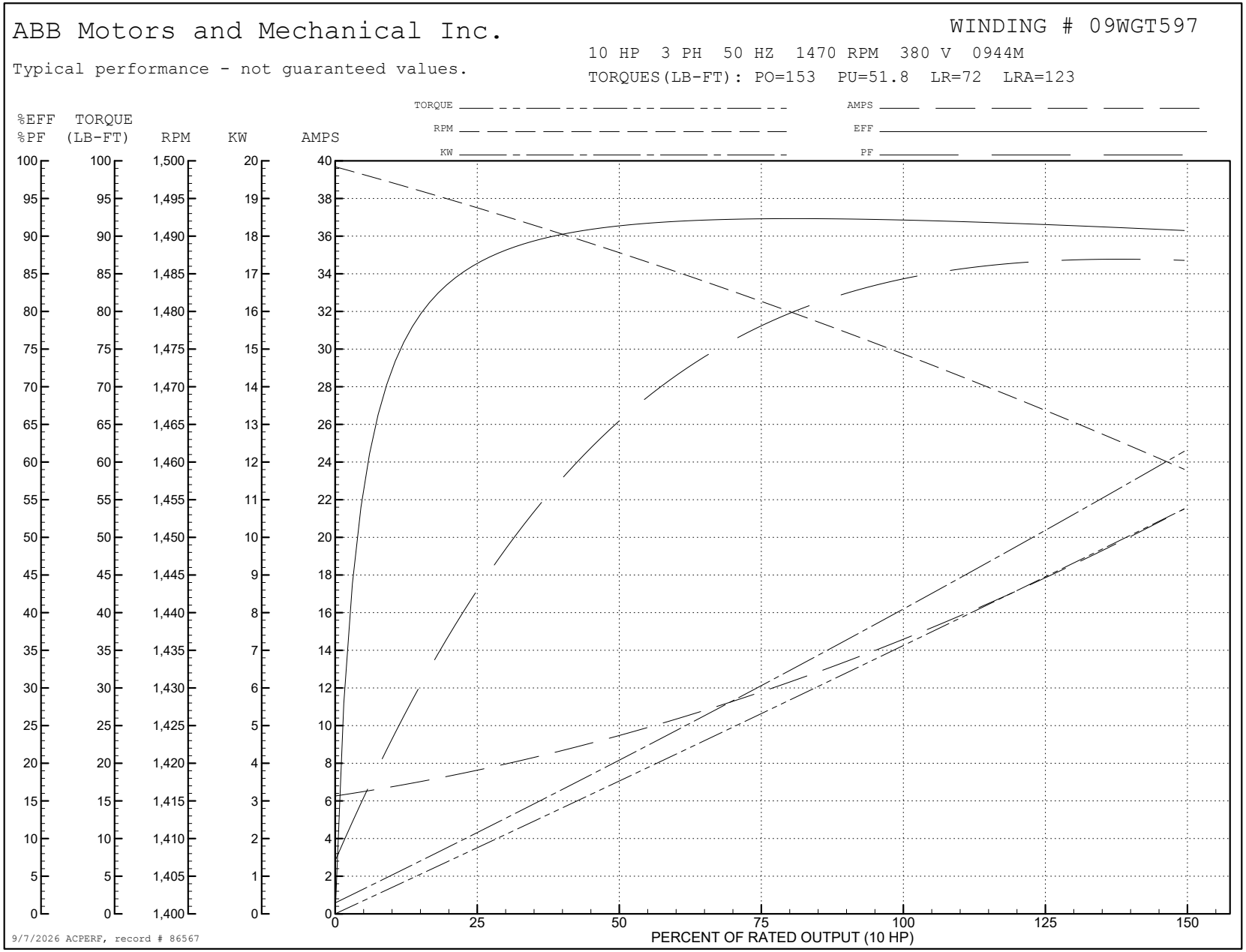
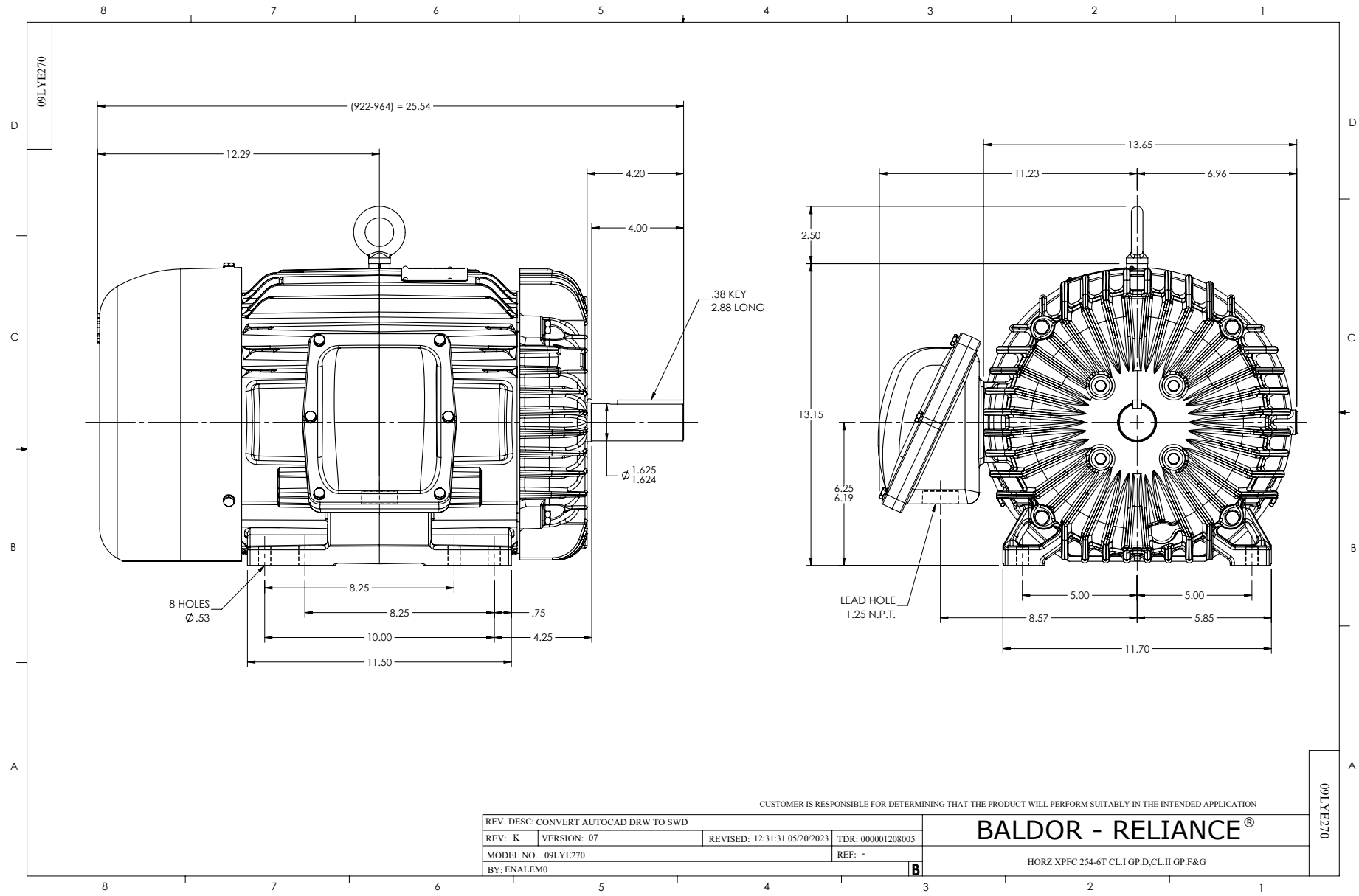
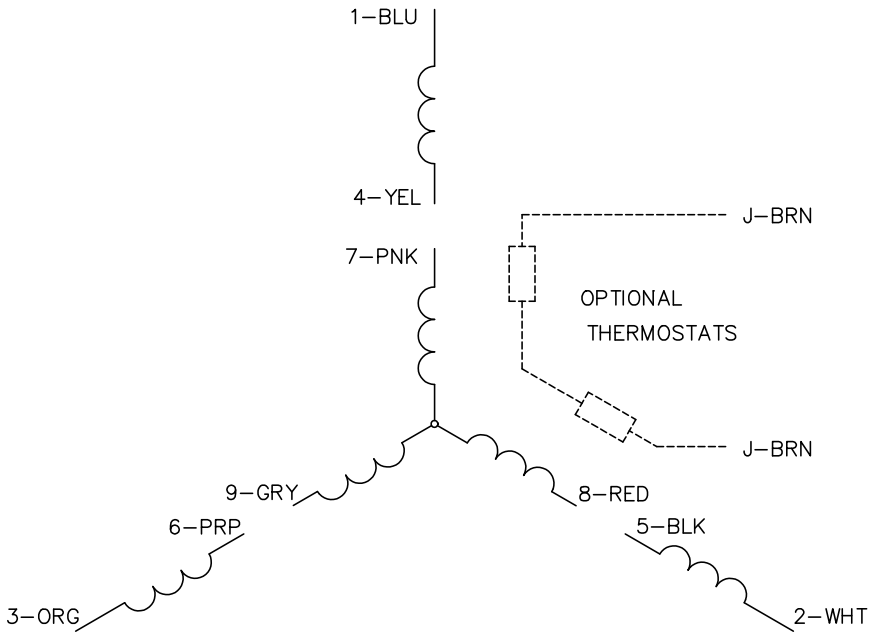
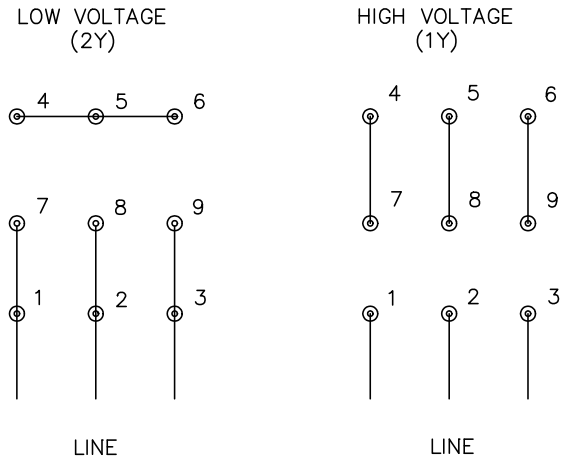


ABB Motors and Mechanical Inc.
WINDING # 09WGT597
Typical performance - not guaranteed values.
10 HP 3 PH 50 HZ 1470 RPM 380 V 0944M
TORQUES(LB-FT): PO=153 PU=51.8 LR=72 LRA=123
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
9/7/2026 ACPERF, record # 86567


09LYE270
(922-964) = 25.54
12.29
4.20
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
8 HOLES
Ø .53
8.25
8.25
.75
10.00
4.25
11.50
13.65
11.23
6.96
2.50
13.15
6.25
6.19
LEAD HOLE
1.25 N.P.T.
5.00
5.00
8.57
5.85
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: K
VERSION: 07
REVISED: 12:31:31 05/20/2023
TDR: 000001208005
MODEL NO. 09LYE270
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 254-6T CL.I GP.D,CL.II GP.F&G
09LYE270

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