ABB BALDOR RELIANCE

Customer information packet

CEM7054T

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	254TC
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	UR
	CSA
	CSA EEV
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
	15.100 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	E
Type	AC
Mech. spec.	09E689
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYE689
Eff. date	02-15-2024
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	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	26.00 IN
Power Factor	84
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
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
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

NP1426XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	09E689T597G1						
CAT.NO.	CEM7054T						
HP	15//10	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	36.2/18.1//30.4/15.1						
RPM	1765//1470						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	A	**CODE**	H		
RATING	40C AMB-CONT						
FRAME	254TC			**NEMA-NOM-EFF**	92.4		
		PF	84				
BLANK							

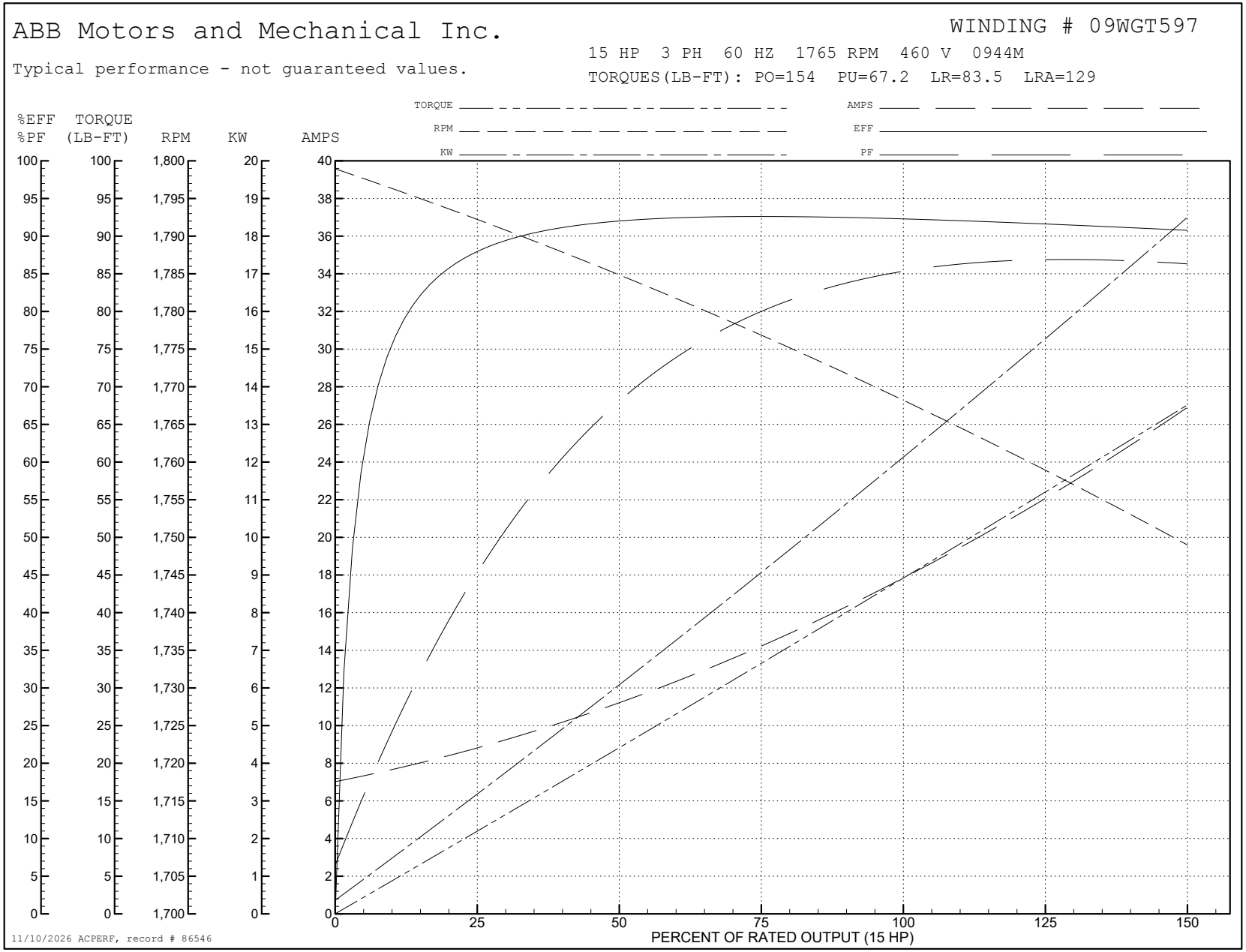
AC Induction Motor Performance Data
Record # 86546
Preliminary Data Sheet

Winding: 09WGT597-R007	**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	**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
				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**
Power Factor	48	69	79	84	86	87
Efficiency	88	92.1	92.7	92.5	91.7	90.7
Speed	1792	1785	1777	1768	1759	1749
Line amperes	8.45	11	14.3	18.1	22.2	26.7


ABB Motors and Mechanical Inc.
WINDING # 09WGT597
15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M
Typical performance - not guaranteed values.
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)
11/10/2026 ACPERF, record # 86546

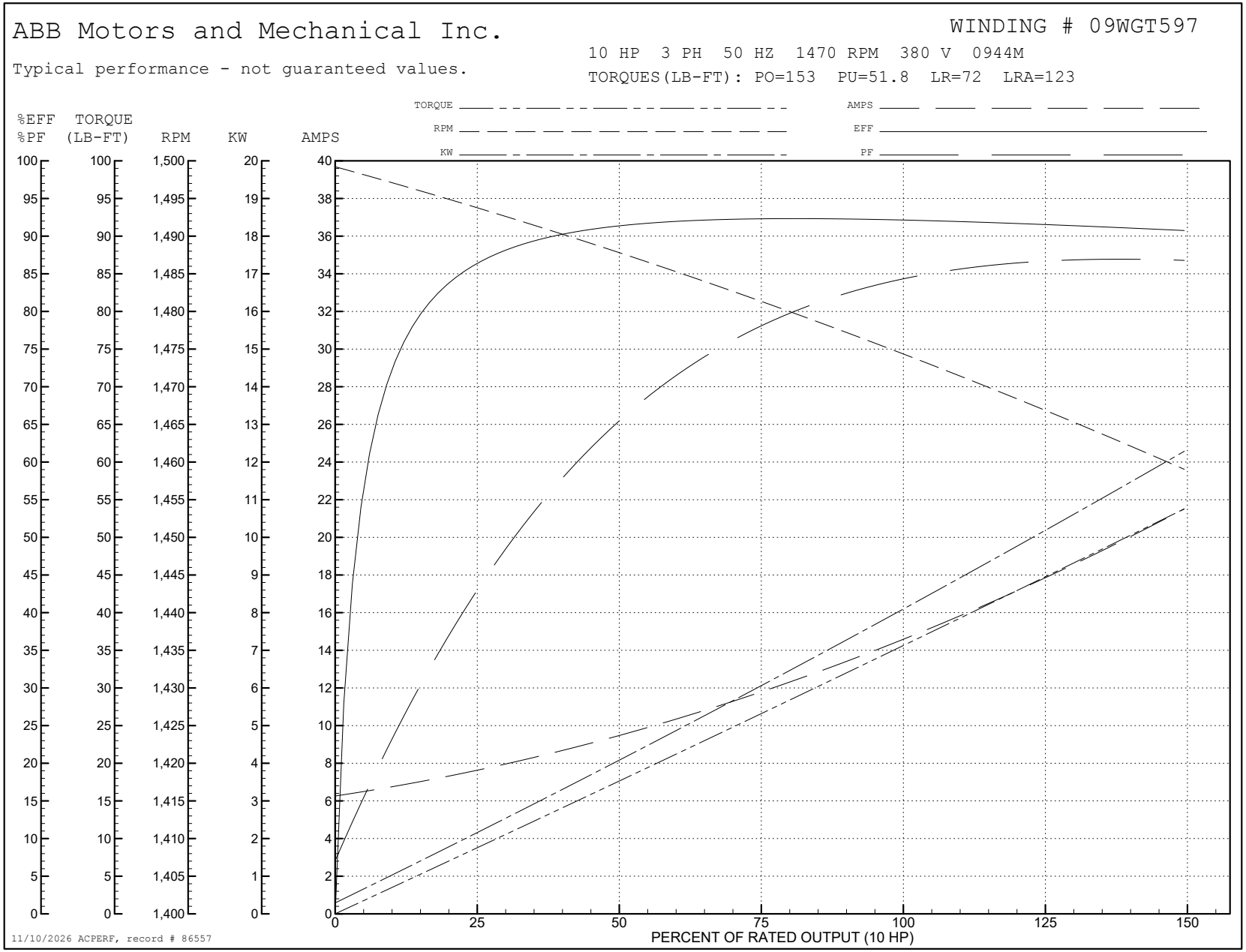
AC Induction Motor Performance Data
Record # 86557
Preliminary Data Sheet

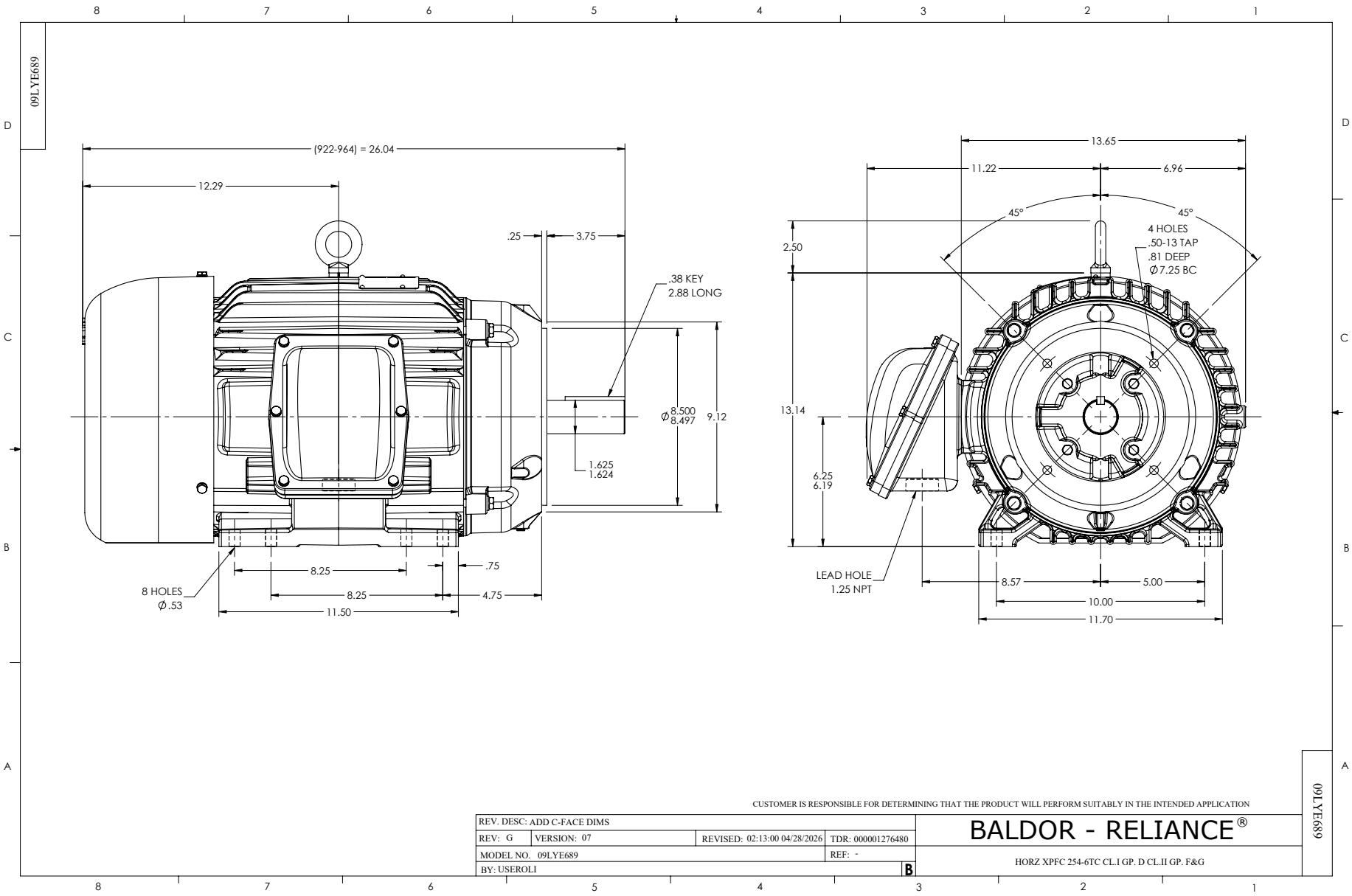
Winding: 09WGT597-R007	**Type:** 0944M	**Enclosure:** XPFC

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	**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
				Locked-rotor Power Factor	38.1
				Rotor inertia	1.92 lb-ft²

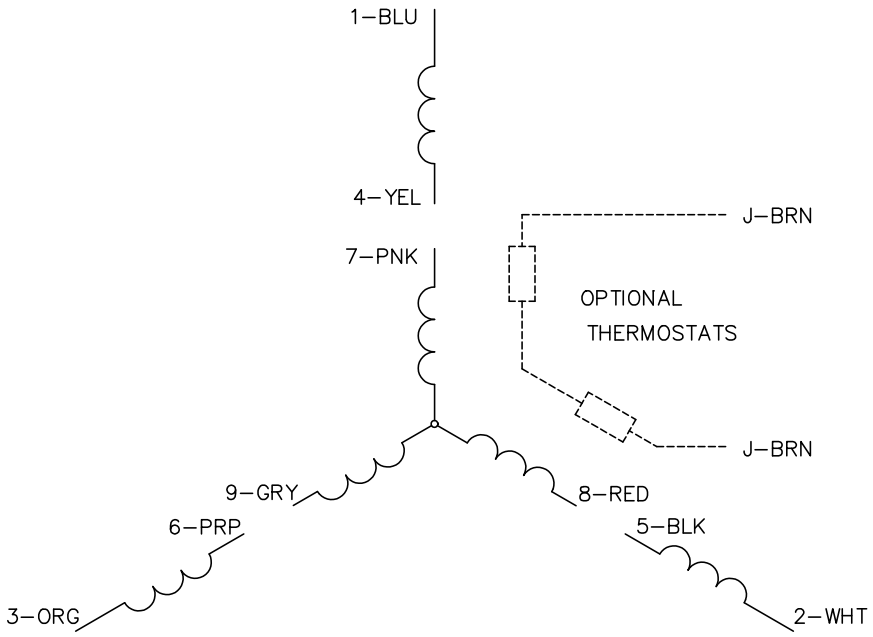
Load Characteristics 380 V, 50 Hz, 10 HP

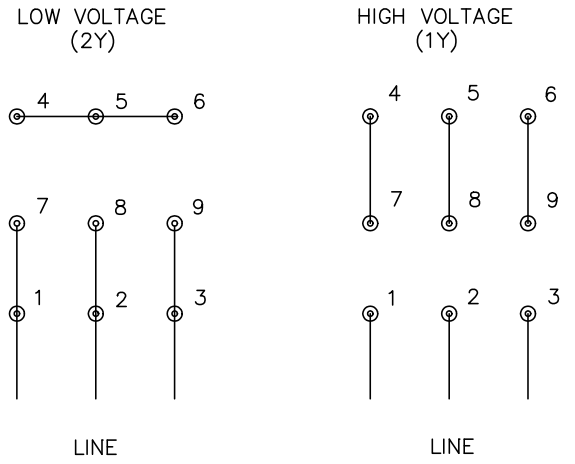
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	45	67	78	84	86	87
Efficiency	86	91.1	92.2	92.2	91.7	90.9
Speed	1494	1488	1481	1474	1467	1459
Line amperes	7.36	9.3	11.9	14.9	17.9	21.4


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)
11/10/2026 ACPERF, record # 86557


09LYE689
(922-964) = 26.04
12.29
.25
3.75
.38 KEY
2.88 LONG
Ø 8.500
8.497
9.12
1.625
1.624
8 HOLES
Ø .53
8.25
.75
8.25
4.75
11.50
13.65
11.22
6.96
45°
45°
4 HOLES
.50-13 TAP
.81 DEEP
Ø7.25 BC
2.50
13.14
6.25
6.19
LEAD HOLE
1.25 NPT
8.57
5.00
10.00
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD C-FACE DIMS
REV: G
VERSION: 07
REVISED: 02:13:00 04/28/2026
TDR: 000001276480
MODEL NO. 09LYE689
REF: -
BY: USEROLI
B
BALDOR - RELIANCE®
HORZ XPFC 254-6TC CL.I GP. D CL.II GP. F&G
09LYE689

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