ABB BALDOR RELIANCE

Customer information packet

IDXM7554T

15HP, 1765RPM, 3PH, 60HZ, 256TC, 0944M, XPFC, F
Class - CLI GP D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	256TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UR
	CSA
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	36.200 A @ 230.0 V
	38.000 A @ 208.0 V
	18.100 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	D
Type	AC
Mech. spec.	09E963
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYE963
Eff. date	01-31-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

Haz Area Temp Code	T2B
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 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	26.00 IN
Power Factor	84
Product Family	General Purpose
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	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

NP0890XPSLEV

NO.				**CC**	010						
S/N				**TEMP CODE**	T2B						
SPEC.	09E963T597G2			**INV.TYPE**	PWM						
CAT.NO.	IDXM7554T			**C HP FR**	60	**C HP TO**	90				
HP	15			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	36.2/18.1		**MAG CUR**	14.6/7.3							
RPM	1765		**MX RPM**	2700							
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	92.4				
SER.F.	1.00	**DES**	A	**SL HZ**	1.2	**WK2**	1.93				
FRAME	256TC	**RATING**	40C AMB-CONT								

AC Induction Motor Performance Data
Record # 86513
Preliminary Data Sheet

Winding: 09WGT597-R008	**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

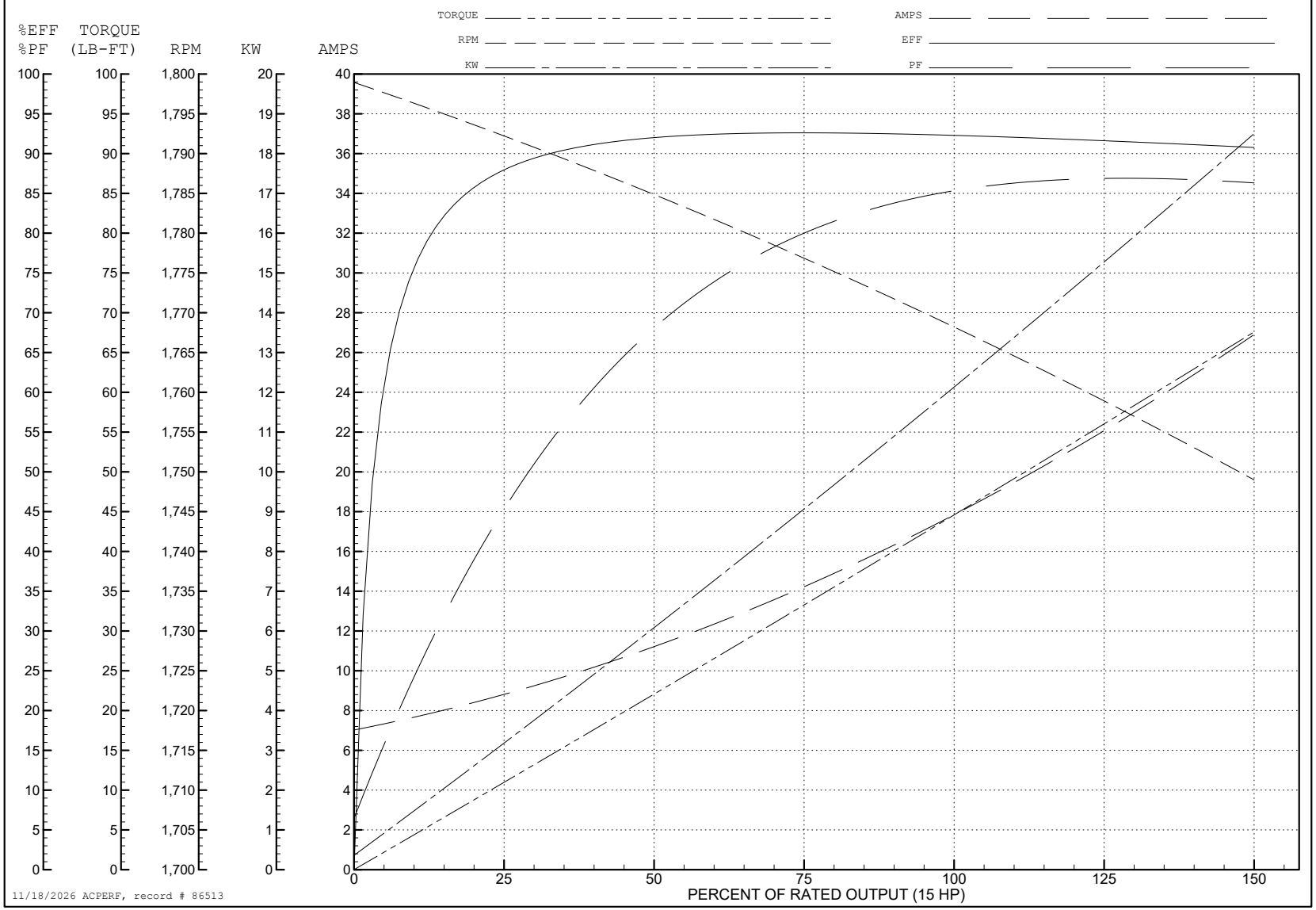
ABB Motors and Mechanical Inc.

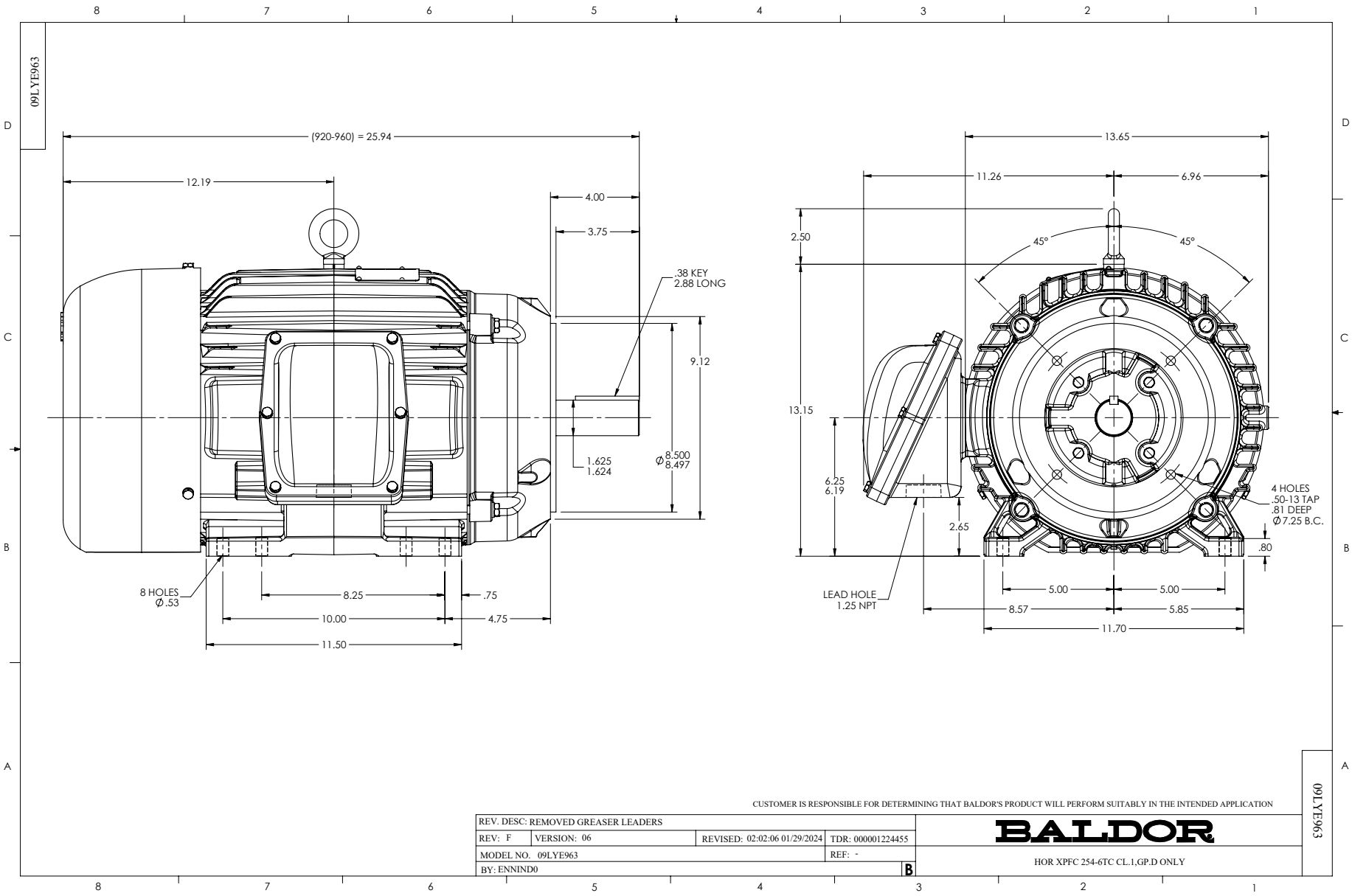
WINDING # 09WGT597

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

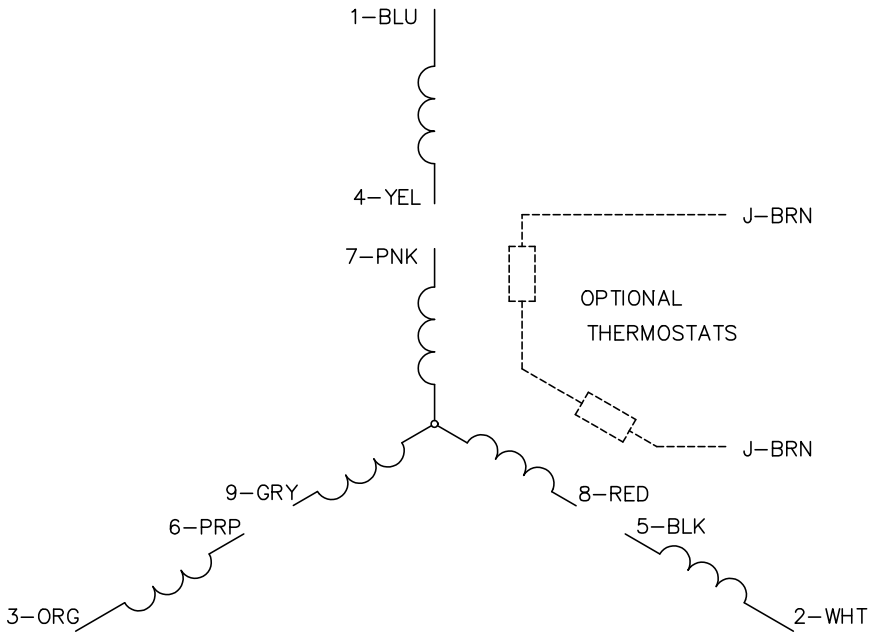
Typical performance - not guaranteed values.

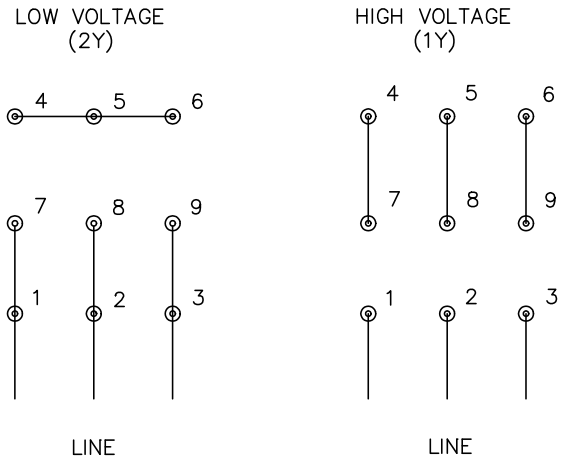
TORQUES(LB-FT): PO=154 PU=67.2 LR=83.5 LRA=129




09LYE963
(920-960) = 25.94
12.19
4.00
3.75
.38 KEY
2.88 LONG
9.12
1.625
1.624
Ø 8.500
8.497
8 HOLES
Ø .53
8.25
.75
10.00
4.75
11.50
13.65
11.26
6.96
2.50
45°
45°
13.15
6.25
6.19
2.65
.80
4 HOLES
.50-13 TAP
.81 DEEP
Ø 7.25 B.C.
LEAD HOLE
1.25 NPT
5.00
5.00
8.57
5.85
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVED GREASER LEADERS
REV: F
VERSION: 06
REVISED: 02:02:06 01/29/2024
TDR: 000001224455
MODEL NO. 09LYE963
REF: -
BY: ENNIND0
B
BALDOR
HOR XPFC 254-6TC CL.1,GP.D ONLY
09LYE963

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