ABB BALDOR RELIANCE

Customer information packet

XM25222T

50M 2P XPFC HOR 256T T'STATS INV DUTY
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	256T
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	20.000 HP @ 60 HZ
	15.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	30
Current @ Voltage	20.000 A @ 380.0 V
	22.000 A @ 460.0 V
	40.000 A @ 190.0 V
	44.000 A @ 230.0 V
	48.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	L
Type	AC
Mech. spec.	09E270
Base	
Status	PRD/A
Elec. spec.	09WGZ651
Layout	09LYE270
Eff. date	11-14-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	03-27-2019

Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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	20.0 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	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.50 IN
Power Factor	91
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	2930 rpm
	3530 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.	09E270Z651G1			**INV.TYPE**	PWM				
CAT.NO.	XM25222T			**C HP FR**	60	**C HP TO**	90		
HP	20//15			**CT HZ FROM**	30			**CT HZ TO**	60
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60
AMPS	44/22//40/20		**MAG CUR**	11.6/5.8					
RPM	3530//2930		**MX RPM**	5400					
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91		
SER.F.	1.15	**DES**	A	**SL HZ**	1.2	**WK2**	1.28		
FRAME	256T	**RATING**	40C AMB-CONT						
	55C AMB @1.0SF ON VFD,60C RISE								
	NEMA MG-1 PT.5,IP54								

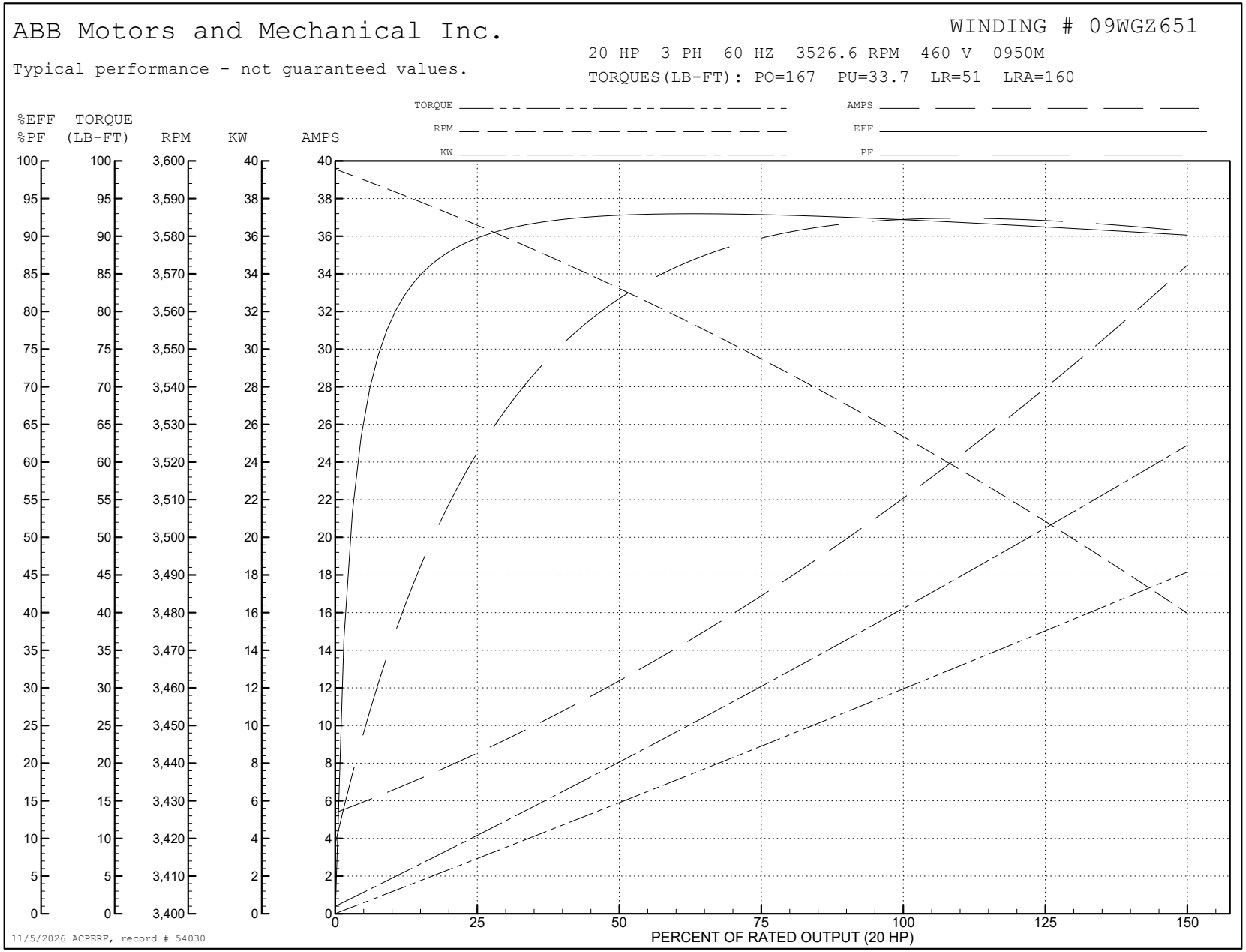
AC Induction Motor Performance Data
Record # 54030
Typical performance - not guaranteed values

Winding: 09WGZ651-R015	**Type:** 0950M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20//15	**Full Load Torque**	30 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			44/22//40/20	**Breakdown Torque**	167 LB-FT
R.P.M.			3530//2930	**Pull-up Torque**	33.7 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	51 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	160 A
Service Factor (S.F.)			1.15	**No-load Current**	5.75 A
NEMA Nom. Eff.	91	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.43337 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps				**Temp. Rise @ S.F. Load**	72°C

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	65	83	89	91	91	91	91
Efficiency	89.4	92.7	92.9	92.4	91.4	90.1	91.8
Speed	3580.7	3566.7	3547.3	3526.6	3504.5	3479.4	3513
Line amperes	8.04	12.2	17.1	22.4	28.2	34.2	25.9


ABB Motors and Mechanical Inc.
WINDING # 09WGZ651
Typical performance - not guaranteed values.
20 HP 3 PH 60 HZ 3526.6 RPM 460 V 0950M
TORQUES(LB-FT): PO=167 PU=33.7 LR=51 LRA=160
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
11/5/2026 ACPERF, record # 54030
PERCENT OF RATED OUTPUT (20 HP)

AC Induction Motor Performance Data
Record # 54031
Typical performance - not guaranteed values

Winding: 09WGZ651-R015	**Type:** 0950M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			20//15	**Full Load Torque**	27 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			44/22//40/20	**Breakdown Torque**	160 LB-FT
R.P.M.			3530//2930	**Pull-up Torque**	35.6 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	53.9 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	156 A
Service Factor (S.F.)			1.15	**No-load Current**	5.7 A
NEMA Nom. Eff.	91	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.41 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
S.F. Amps				**Temp. Rise @ S.F. Load**	64°C
				Locked-rotor Power Factor	31.3
				Rotor inertia	1.28 LB-FT2

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	63	82	88	91	91	92	91
Efficiency	86.8	91.6	91.6	91.2	90.3	89.1	90.6
Speed	2982	2969	2952	2933	2914	2891	2922
Line amperes	7.7	11.5	15.8	20.6	25.9	31.3	23.8

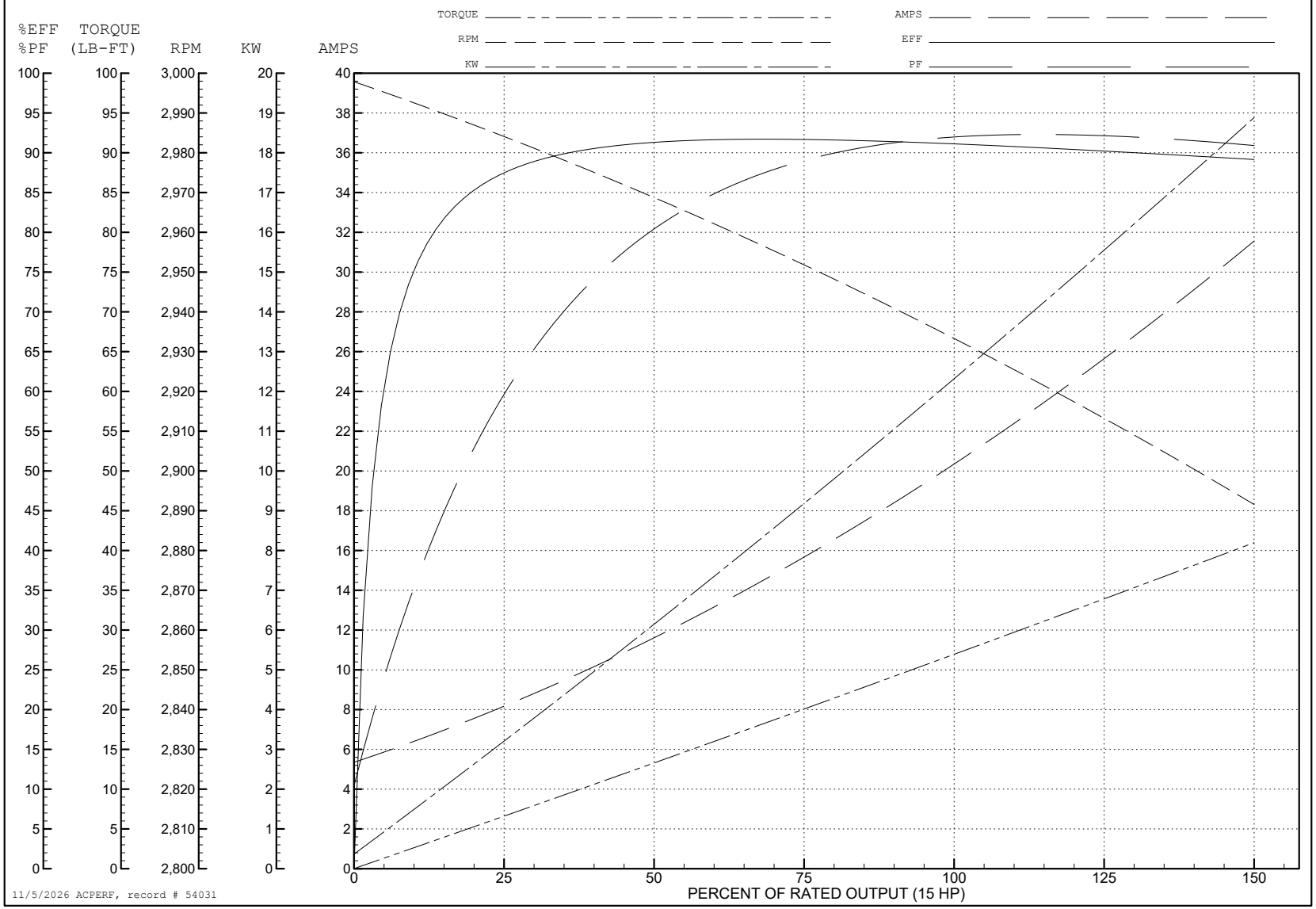
ABB Motors and Mechanical Inc.

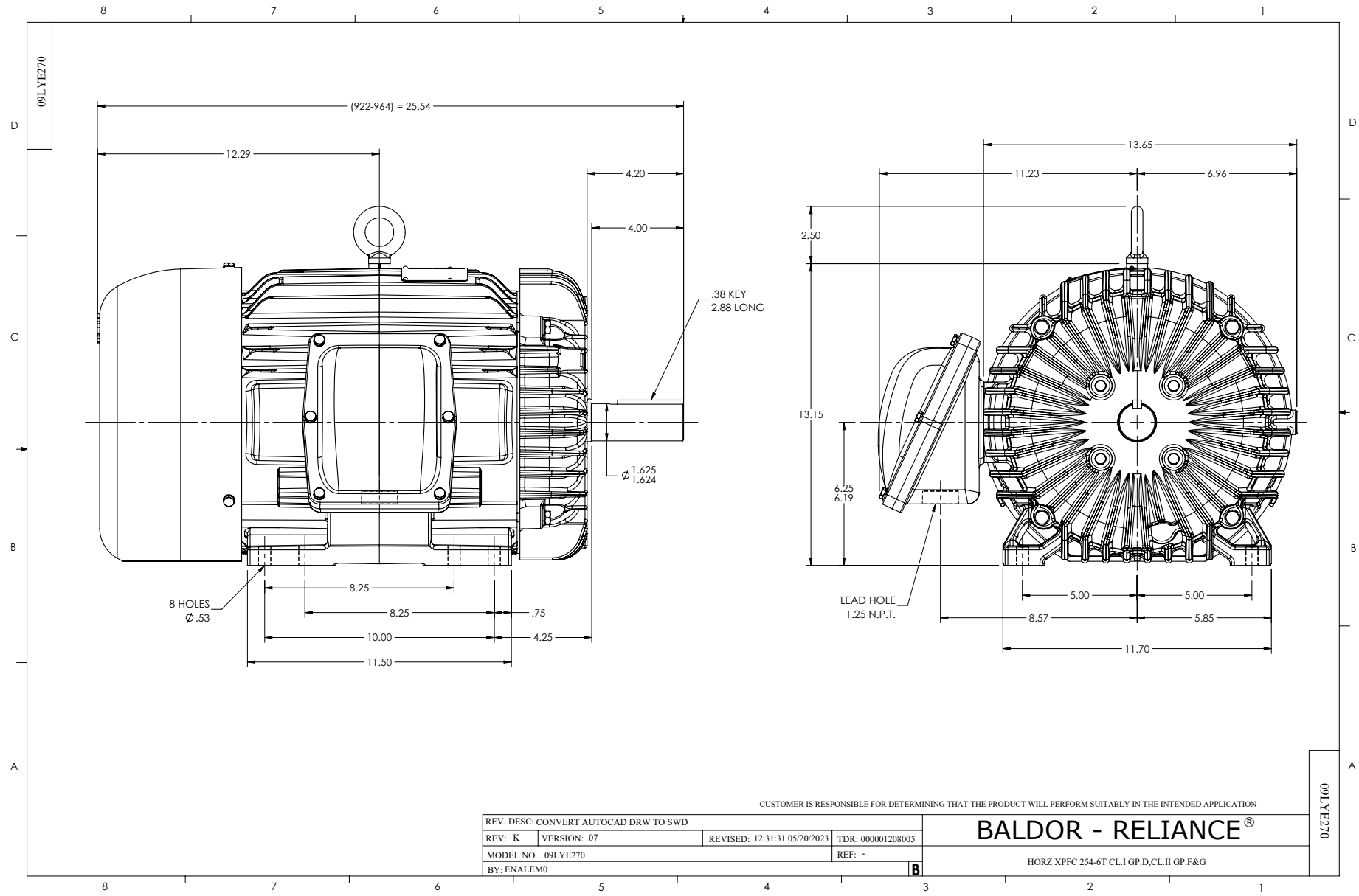
WINDING # 09WGZ651

15 HP 3 PH 50 HZ 2933 RPM 380 V 0950M

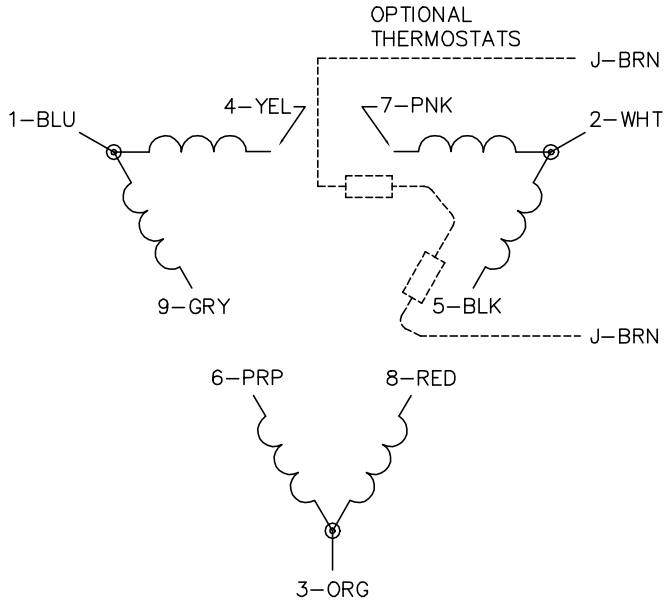
Typical performance - not guaranteed values.

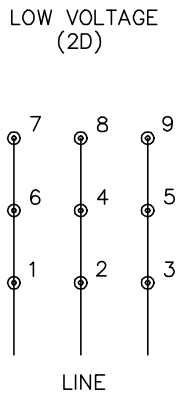
TORQUES(LB-FT): PO=160 PU=35.6 LR=53.9 LRA=156

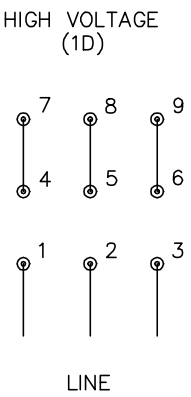



09LYE270
(922-964) = 25.54
12.29
4.20
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
8 HOLES
Ø .53
8.25
8.25
.75
10.00
4.25
11.50
13.65
11.23
6.96
2.50
13.15
6.25
6.19
LEAD HOLE
1.25 N.P.T.
5.00
5.00
8.57
5.85
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED 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

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1