ABB BALDOR RELIANCE

Customer information packet

XM25242T

60M 4P 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	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	22.000 A @ 380.0 V
	24.000 A @ 460.0 V
	44.000 A @ 190.0 V
	48.000 A @ 230.0 V
	52.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	M
Type	AC
Mech. spec.	09E270
Base	
Status	PRD/A
Elec. spec.	09WGT459
Layout	09LYE270
Eff. date	11-14-2023
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	03-27-2019

Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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	22.0 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	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.50 IN
Power Factor	83
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
	1770 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.	09E270T459G3			**INV.TYPE**	PWM						
CAT.NO.	XM25242T			**C HP FR**	60	**C HP TO**	90				
HP	20//15			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	48/24//44/22			**MAG CUR**							
RPM	1770//1470			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	93				
SER.F.	1.15	**DES**	A	**SL HZ**	1	**WK2**	2.62				
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 # 68069
Typical performance - not guaranteed values

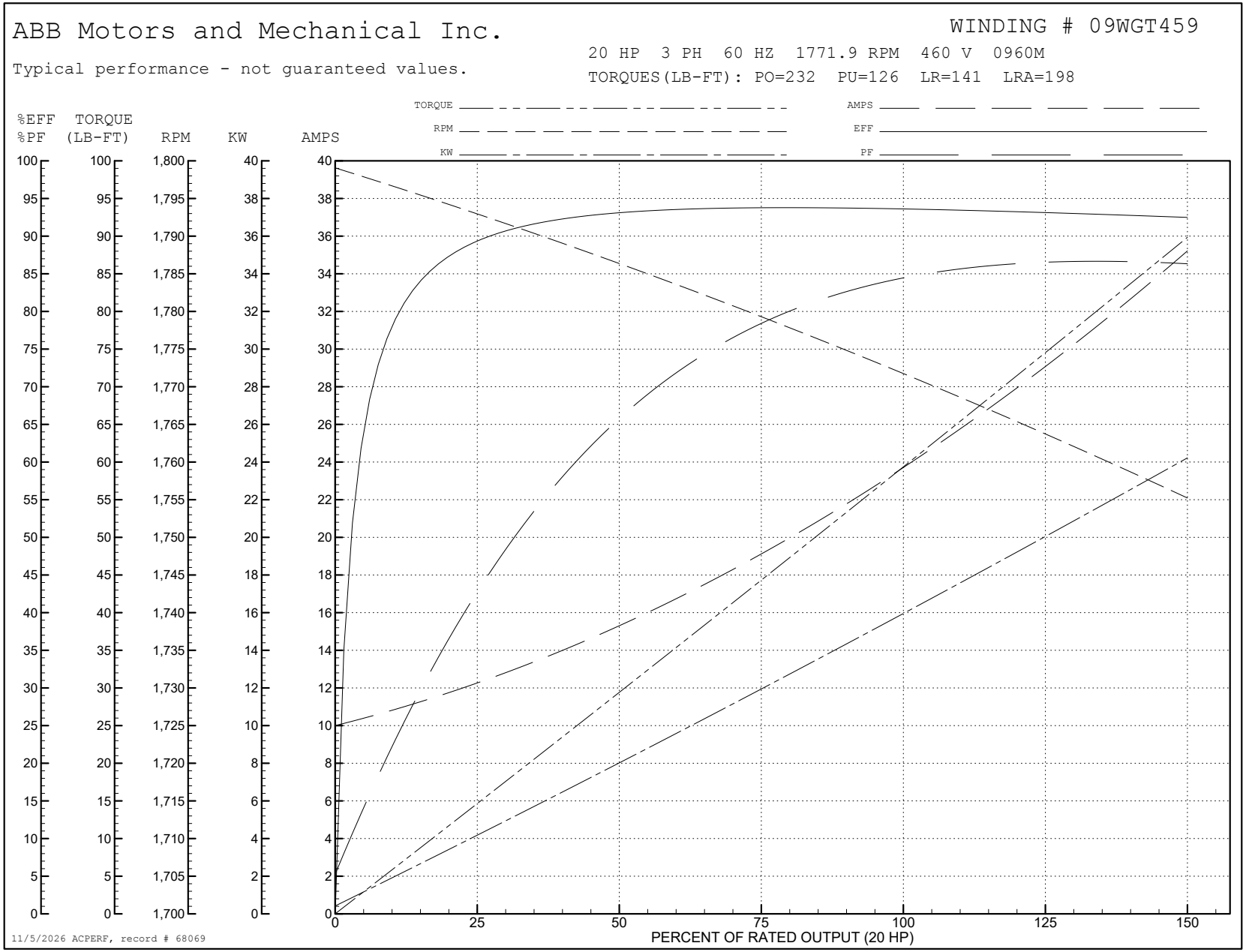
Winding: 09WGT459-R010	**Type:** 0960M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			20//15
Volts			230/460//190/380
Full Load Amps			48/24//44/22
R.P.M.			1770//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93	**Power Factor**	83
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	59.27 LB-FT
Start Configuration	direct on line
Breakdown Torque	232 LB-FT
Pull-up Torque	126 LB-FT
Locked-rotor Torque	141 LB-FT
Starting Current	198 A
No-load Current	10.4 A
Line-line Res. @ 25ºC	0.33814 Ω
Temp. Rise @ Rated Load	58°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	26.5

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	78	83	86	87	85
Efficiency	89.2	93	93.7	93.6	93.1	92.4	93.3
Speed	1793.2	1786.4	1779.1	1771.9	1763.7	1755.3	1767
Line amperes	11.8	15	19.2	24	29.3	34.9	27.2


ABB Motors and Mechanical Inc.
WINDING # 09WGT459
Typical performance - not guaranteed values.
20 HP 3 PH 60 HZ 1771.9 RPM 460 V 0960M
TORQUES(LB-FT): PO=232 PU=126 LR=141 LRA=198
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/5/2026 ACPERF, record # 68069

AC Induction Motor Performance Data
Record # 68070
Typical performance - not guaranteed values

Winding: 09WGT459-R010	**Type:** 0960M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			20//15
Volts			230/460//190/380
Full Load Amps			48/24//44/22
R.P.M.			1770//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93	**Power Factor**	83
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	53.45 LB-FT
Start Configuration	direct on line
Breakdown Torque	224 LB-FT
Pull-up Torque	131 LB-FT
Locked-rotor Torque	146 LB-FT
Starting Current	193 A
No-load Current	10.16 A
Line-line Res. @ 25ºC	0.316 Ω
Temp. Rise @ Rated Load	50°C
Temp. Rise @ S.F. Load	61°C
Locked-rotor Power Factor	29.3
Rotor inertia	2.65 LB-FT2

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	66	77	83	86	87	85
Efficiency	88	92.2	93.1	93.1	92.5	91.8	92.7
Speed	1494	1488	1481	1475	1467	1460	1470
Line amperes	11.32	14.06	17.76	22.07	26.82	31.83	24.9

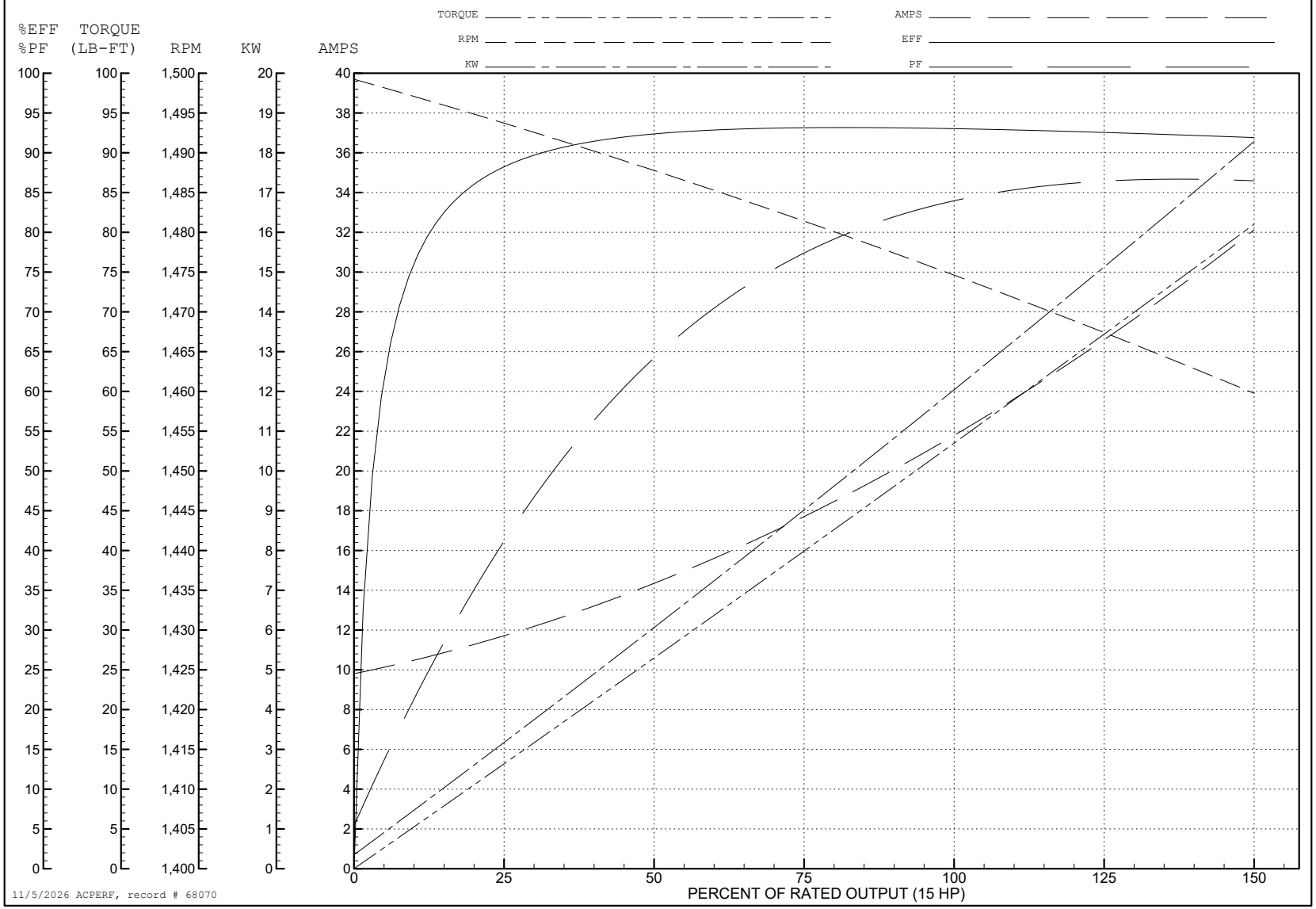
ABB Motors and Mechanical Inc.

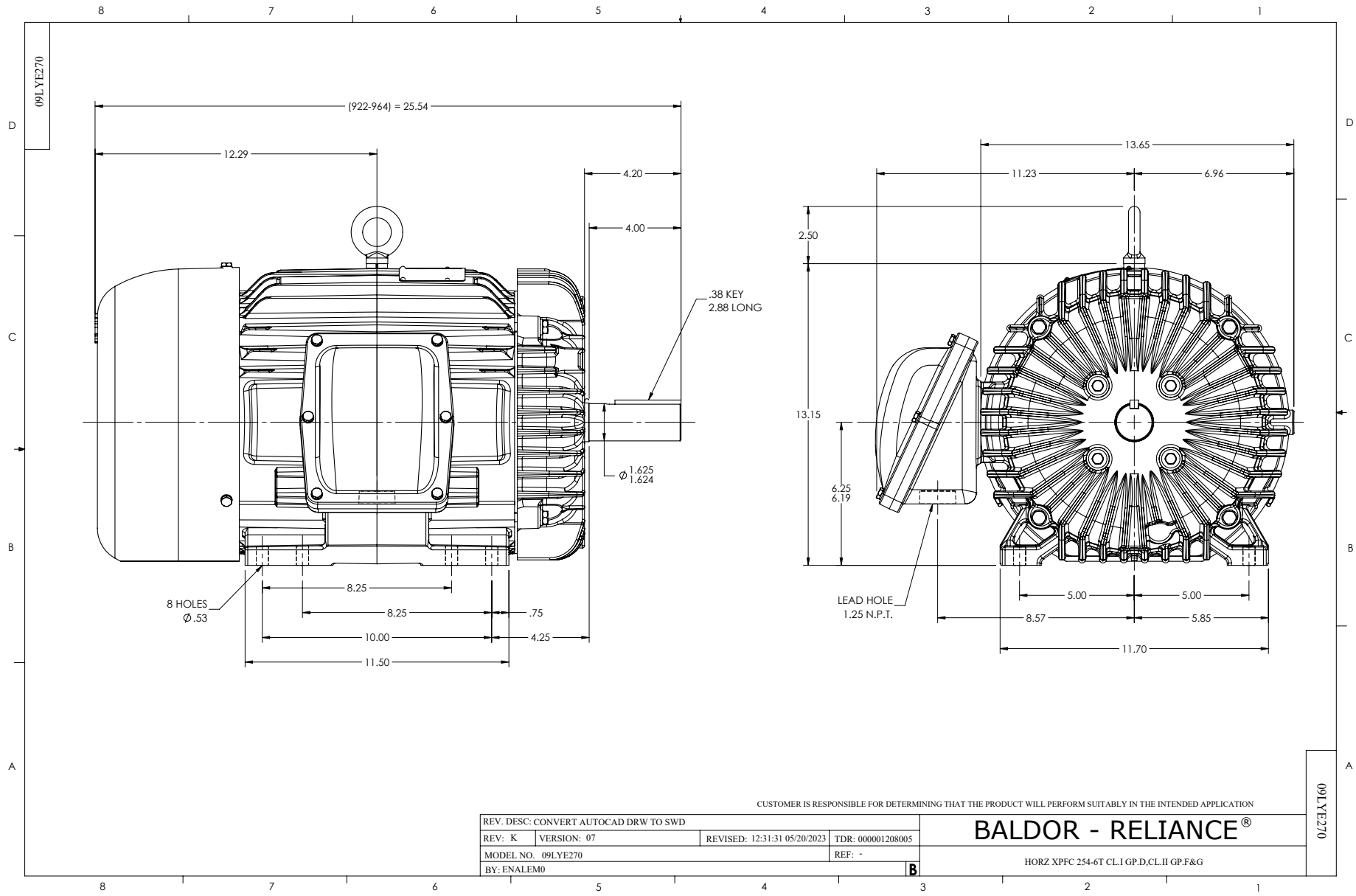
WINDING # 09WGT459

15 HP 3 PH 50 HZ 1475 RPM 380 V 0960M

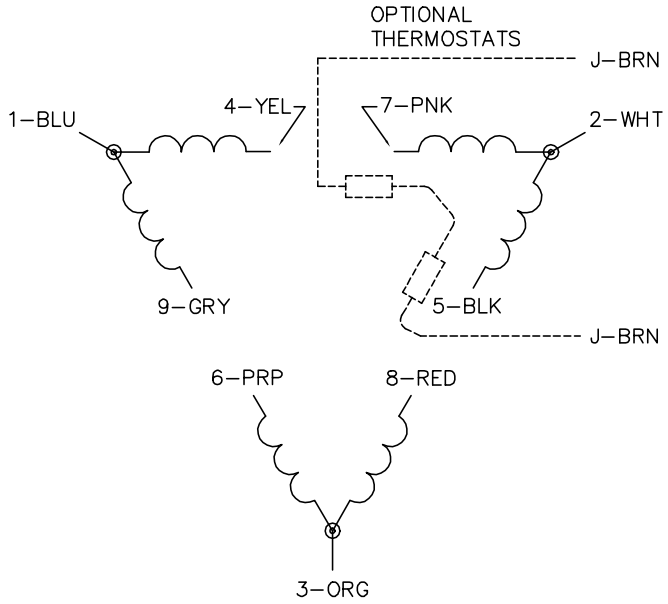
Typical performance - not guaranteed values.

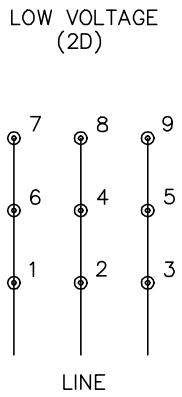
TORQUES(LB-FT): PO=224 PU=131 LR=146 LRA=193

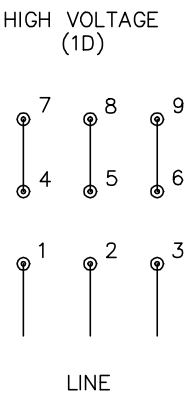



09LYE270
(922-964) = 25.54
12.29
4.20
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
8 HOLES
Ø .53
8.25
8.25
.75
10.00
4.25
11.50
13.65
11.23
6.96
2.50
13.15
6.25
6.19
LEAD HOLE
1.25 N.P.T.
5.00
5.00
8.57
5.85
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED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