

**BALDOR • RELIANCE**

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# Customer information packet

## CXM25222T

20//15HP, 3530//2930RPM, 3PH, 60//50HZ, 256T

Class - CLI GP D; CLII GP F,G

Division - Division I

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## Specifications

Enclosure	XPFC
Frame	256TC
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	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
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
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

## Part detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ651
Layout	09LYE689
Eff. date	11-14-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	02-17-2021

Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
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 Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.00 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	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**

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**Nameplate**

**NP0887XPSLEV**

<b>NO.</b>		<b>CC</b>	010A		
<b>S/N</b>		<b>TEMP CODE</b>	T3C		
<b>SPEC.</b>	09-0000-2930	<b>INV.TYPE</b>	PWM		
<b>CAT.NO.</b>	CXM25222T	<b>C HP FR</b>	60	<b>C HP TO</b>	90
<b>HP</b>	20//15	<b>CT HZ FROM</b>	6	<b>CT HZ TO</b>	60
<b>VOLTS</b>	230/460//190/380	<b>VT HZ FROM</b>	6	<b>VT HZ TO</b>	60
<b>AMPS</b>	44/22//40/20	<b>MAG CUR</b>	10.6/5.3		
<b>RPM</b>	3530//2930	<b>MX RPM</b>	5400		
<b>HZ</b>	60//50	<b>PH</b>	3	<b>CL</b>	F
		<b>NOM.EFF.</b>	91		
<b>SER.F.</b>	1.00	<b>DES</b>	A	<b>SL HZ</b>	1.2
		<b>WK2</b>	1.28		
<b>FRAME</b>	256TC	<b>RATING</b>	40C AMB-CONT		
	NEMA MG-1 PART 5, IP54				
	1.15 SF ON SINE WAVE				

**AC Induction Motor Performance Data**

Record # 31502

Typical performance - not guaranteed values

<b>Winding:</b> 09WGZ601-R003		<b>Type:</b> 0936M		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	20//15		<b>Full Load Torque</b>	29.6 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	46/23//42/21		<b>Breakdown Torque</b>	111 LB-FT	
<b>R.P.M.</b>	3520//2930		<b>Pull-up Torque</b>	39.1 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	49.6 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		H	<b>Starting Current</b>	161 A
<b>Service Factor (S.F.)</b>			1.15	<b>No-load Current</b>	7.17 A
<b>NEMA Nom. Eff.</b>	91	<b>Power Factor</b>	89	<b>Line-line Res. @ 25°C</b>	0.47592 Ω
<b>Rating - Duty</b>			40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	76°C
<b>S.F. Amps</b>				<b>Temp. Rise @ S.F. Load</b>	95°C
				<b>Locked-rotor Power Factor</b>	29
				<b>Rotor inertia</b>	0.92 LB-FT <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 20 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	58	78	86	89	90	90	90
<b>Efficiency</b>	88.9	92.2	92.4	91.7	90.7	89.2	91.1
<b>Speed</b>	3579.6	3561.5	3541.3	3519.5	3495.4	3467.8	3505
<b>Line amperes</b>	9	13	17.7	22.9	28.6	35	26.3

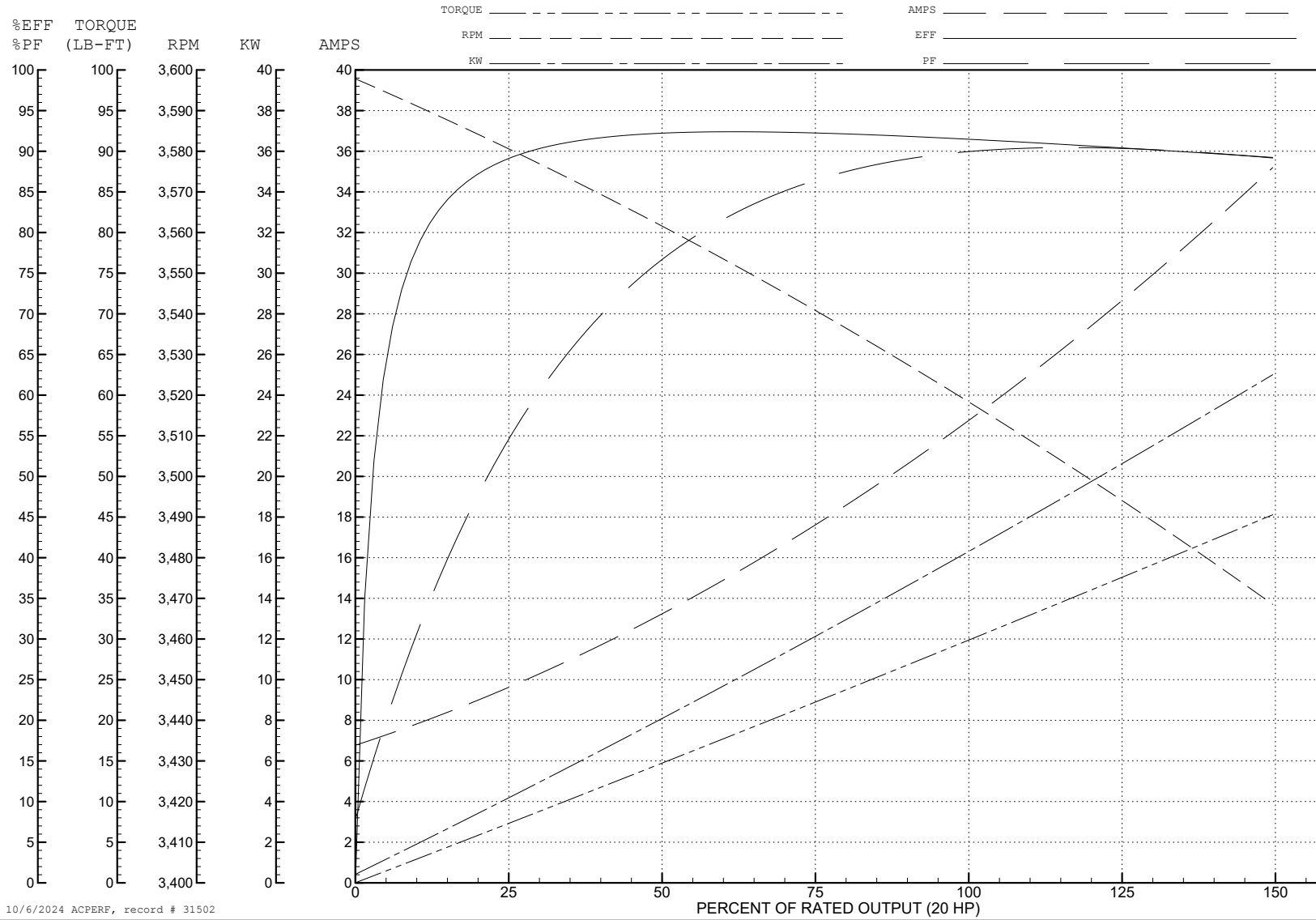
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WINDING # 09WGZ601

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 3519.5 RPM 460 V 0936M

TORQUES (LB-FT): PO=111 PU=39.1 LR=49.6 LRA=161



10/6/2024 ACPERF, record # 31502

**AC Induction Motor Performance Data**

Record # 31503

Typical performance - not guaranteed values

Winding: 09WGZ601-R003		Type: 0936M	Enclosure: TEFC			
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>			
Rated Output (HP)	20//15		Full Load Torque	26.7 LB-FT		
Volts	230/460//190/380		Start Configuration	direct on line		
Full Load Amps	46/23//42/21		Breakdown Torque	106 LB-FT		
R.P.M.	3520//2930		Pull-up Torque	41.4 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	52.5 LB-FT	
NEMA Design Code	B		KVA Code	H	Starting Current	157 A
Service Factor (S.F.)	1.15		No-load Current	6.99 A		
NEMA Nom. Eff.	91	Power Factor	89		Line-line Res. @ 25°C	0.447 Ω
Rating - Duty	40C		AMB-CONT	Temp. Rise @ Rated Load	67°C	
S.F. Amps				Temp. Rise @ S.F. Load	84°C	
				Locked-rotor Power Factor	33	
				Rotor inertia	0.92 LB-FT <sup>2</sup>	

**Load Characteristics 380 V, 50 Hz, 15 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	76	85	88	90	90	89
Efficiency	88.8	92	92.1	91.3	90.2	88.7	90.6
Speed	2982	2966	2947	2928	2907	2882	2915
Line amperes	8.55	12	16.3	21	26.1	31.8	24.1



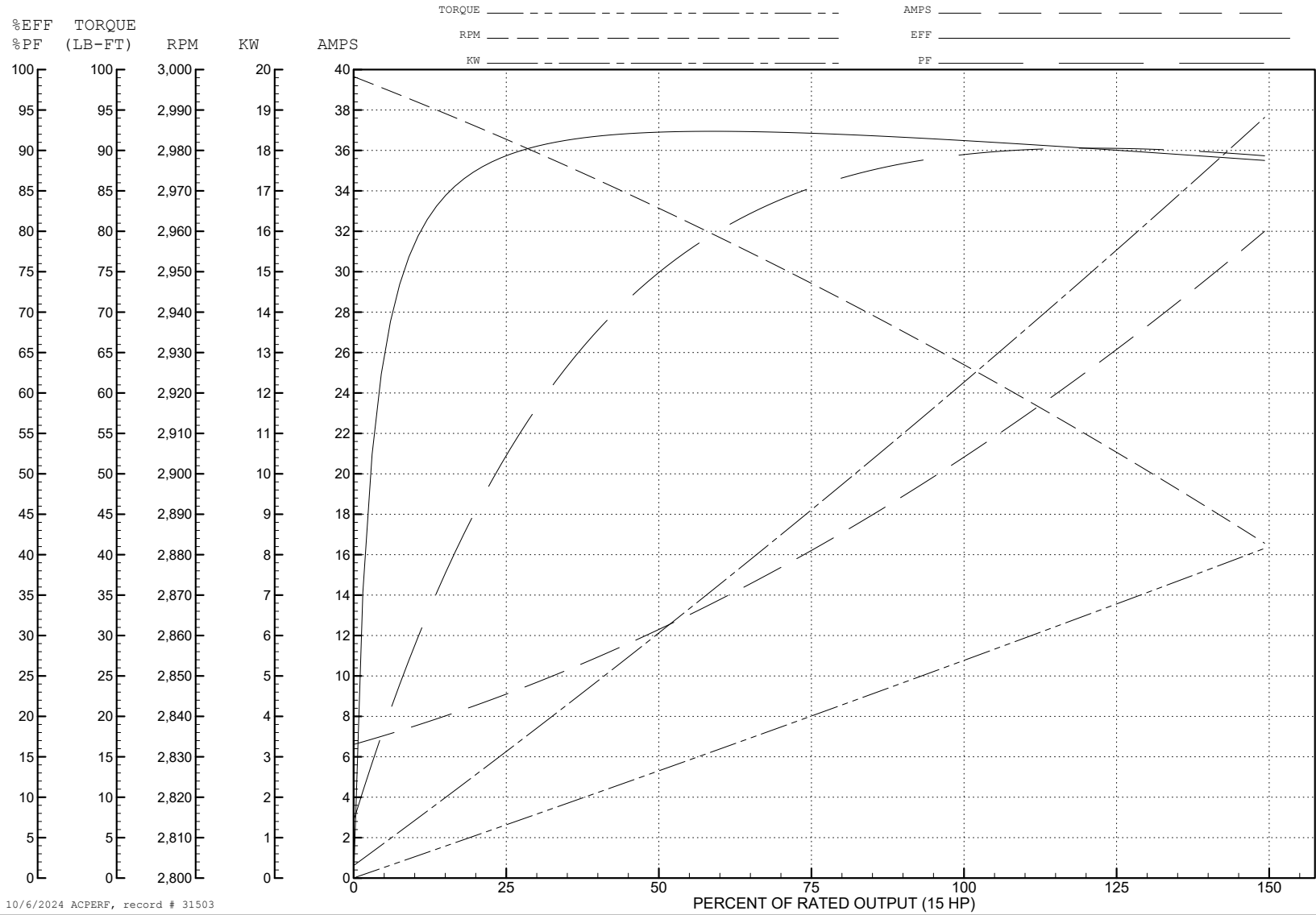
ABB Motors and Mechanical Inc.

WINDING # 09WGZ601

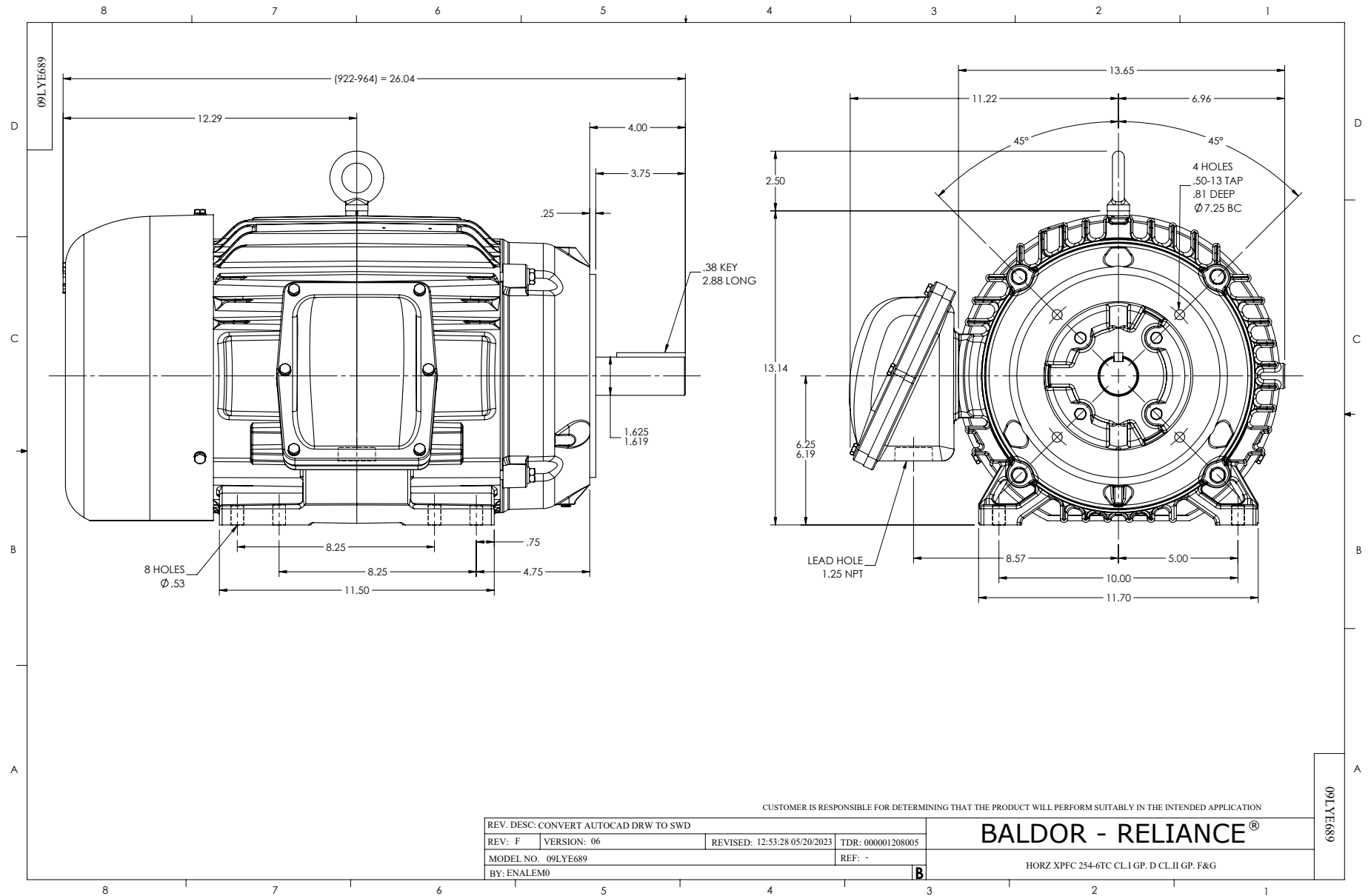
Typical performance - not guaranteed values.

15 HP 3 PH 50 HZ 2928 RPM 380 V 0936M

TORQUES (LB-FT): PO=106 PU=41.4 LR=52.5 LRA=157



10/6/2024 ACPERF, record # 31503



CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



**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		
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FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
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3PH, DV, 9 LEADS, DELTA CONNECTION

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