

**BALDOR • RELIANCE**

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# Customer information packet

## CDRX25164T

10HP, 1180//980RPM, 3PH, 60/50HZ, 256TC, XPFC

Class - CLI GP C,D

Division - Division I

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5/12/2025 12:24:30 AM

## Specifications

Enclosure	XPFC
Frame	256TC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ 7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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	30.400 A @ 208.0 V 30.000 A @ 230.0 V 28.000 A @ 190.0 V 15.000 A @ 460.0 V 14.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

## Part detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WVGZ383
Layout	09LYF368
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	06-04-2019

<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	91.0 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Haz Area Temp Code</b>	T3C
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	14.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>IP Rating</b>	NONE
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	1800 rpm
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0956M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	6
<b>Overall Length</b>	26.00 IN
<b>Power Factor</b>	70
<b>Product Family</b>	Hazardous Location Motor
<b>Pulley Face Code</b>	C-Face
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS NON-COMPLIANT
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	1.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Speed</b>	1180 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Normally Closed Thermostat

<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

<b>NP1401XPSLEV</b>										
<b>NO.</b>		<b>CC</b>	010A							
<b>S/N</b>		<b>TEMP CODE</b>	T3C							
<b>SPEC.</b>	09-0000-1442		<b>INV.TYPE</b>	PWM						
<b>CAT.NO.</b>	CDRX25164T		<b>C HP FR</b>	60	<b>C HP TO</b>	90				
<b>HP</b>	10//7.5		<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>	30/15//28/14		<b>MAG CUR</b>	15.8/7.9						
<b>RPM</b>	1180//980		<b>MX RPM</b>	1800						
<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	<b>WK2</b>	4.5			
<b>FRAME</b>	256TC	<b>RATING</b>	40C AMB-CONT							
	55C AMB @ 1.0 SF, 60C RISE									
	1.15SF ON SINEWAVE		NEMA MG-1 PT.5,IP55							

**AC Induction Motor Performance Data**

Record # 73723

Typical performance - not guaranteed values

Winding: 09WGZ383-R006		Type: 0956M	Enclosure: XPFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	10	Full Load Torque	44.4 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	29.2/14.6	Breakdown Torque	146 LB-FT	
R.P.M.	1180	Pull-up Torque	53.6 LB-FT	
Hz	60 Phase	Locked-rotor Torque	73.6 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	95.3 A	
Service Factor (S.F.)	1	No-load Current	7.9 A	
NEMA Nom. Eff.	91 Power Factor	Line-line Res. @ 25°C	0.659 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	45°C	
S.F. Amps		Temp. Rise @ S.F. Load	53°C	
		Locked-rotor Power Factor	24.2	
		Rotor inertia	4.5 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 10 HP**

% of Rated Load	25	50	75	100	125	150
Power Factor	32	52	63	70	72	73
Efficiency	83.6	89.7	91.3	91.5	91.1	90.3
Speed	1196	1191	1186	1182	1176	1169
Line amperes	8.74	10.1	12.2	14.7	17.7	21

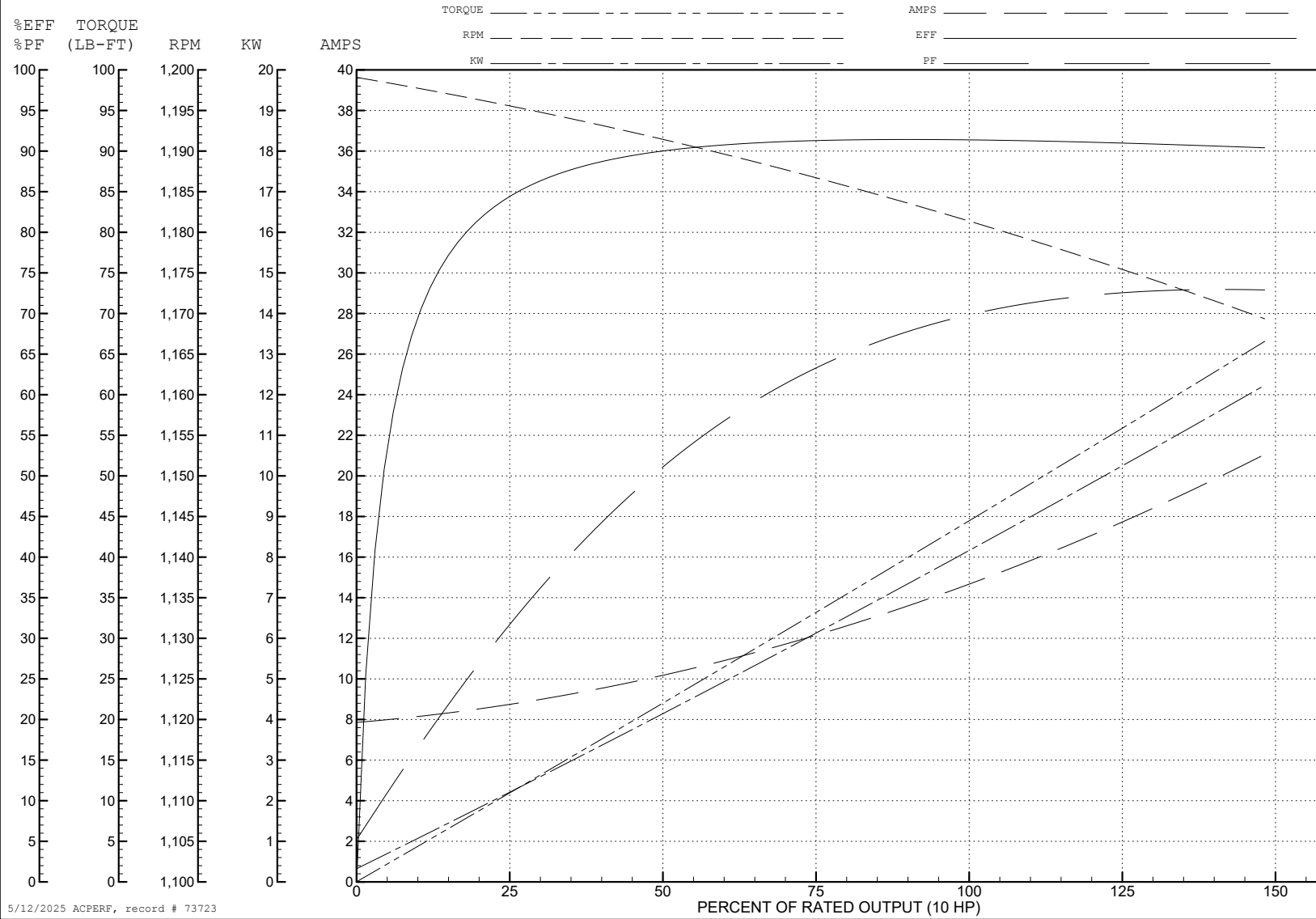
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WINDING # 09WGZ383

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1180 RPM 460 V 0956M

TORQUES (LB-FT): PO=146 PU=53.6 LR=73.6 LRA=95.3



5/12/2025 ACPERF, record # 73723

**AC Induction Motor Performance Data**

Record # 75809

Typical performance - not guaranteed values

<b>Winding:</b> 09WGZ383-R004		<b>Type:</b> 0956M		<b>Enclosure:</b> XPFC		
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>			
<b>Rated Output (HP)</b>	10//7.5		<b>Full Load Torque</b>	40.04 LB-FT		
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	30/15//28/14		<b>Breakdown Torque</b>	141 LB-FT		
<b>R.P.M.</b>	1180//980		<b>Pull-up Torque</b>	56.44 LB-FT		
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	77.49 LB-FT	
<b>NEMA Design Code</b>	A		<b>KVA Code</b>	J	<b>Starting Current</b>	93.43 A
<b>Service Factor (S.F.)</b>				1	<b>No-load Current</b>	7.77 A
<b>NEMA Nom. Eff.</b>	91	<b>Power Factor</b>	70	<b>Line-line Res. @ 25°C</b>	0.659 Ω	
<b>Rating - Duty</b>	40C		AMB-CONT	<b>Temp. Rise @ Rated Load</b>	40°C	
<b>S.F. Amps</b>				<b>Temp. Rise @ S.F. Load</b>	48°C	
				<b>Locked-rotor Power Factor</b>	27.1	
				<b>Rotor inertia</b>	4.5 LB-FT <sup>2</sup>	

**Load Characteristics 380 V, 50 Hz, 7.5 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>Power Factor</b>	31	50	61	68	71	73
<b>Efficiency</b>	83	89.2	90.8	91.1	90.6	89.7
<b>Speed</b>	996	992	987	984	978	972
<b>Line amperes</b>	8.53	9.7	11.52	13.72	16.39	19.29



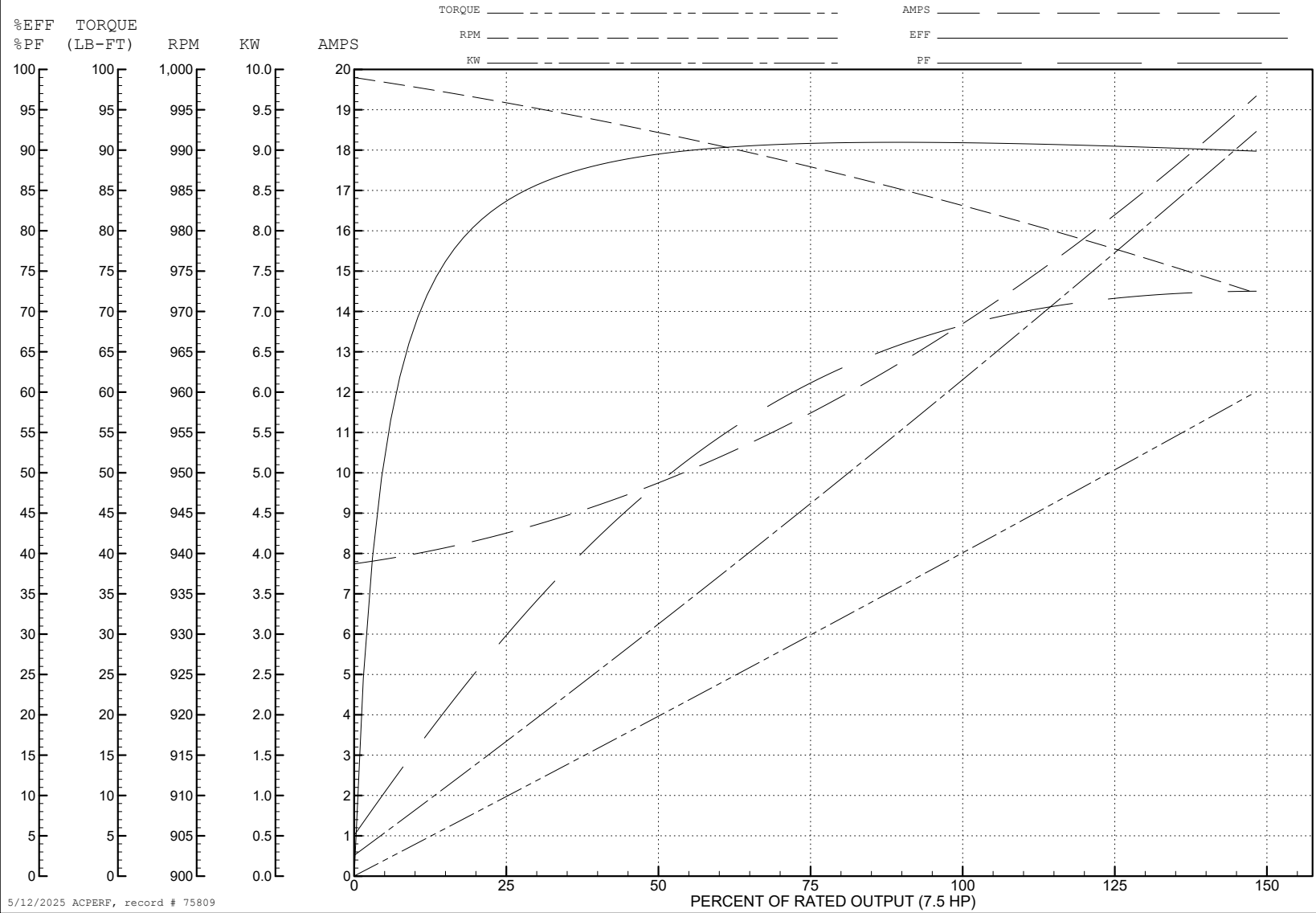
ABB Motors and Mechanical Inc.

WINDING # 09WGZ383

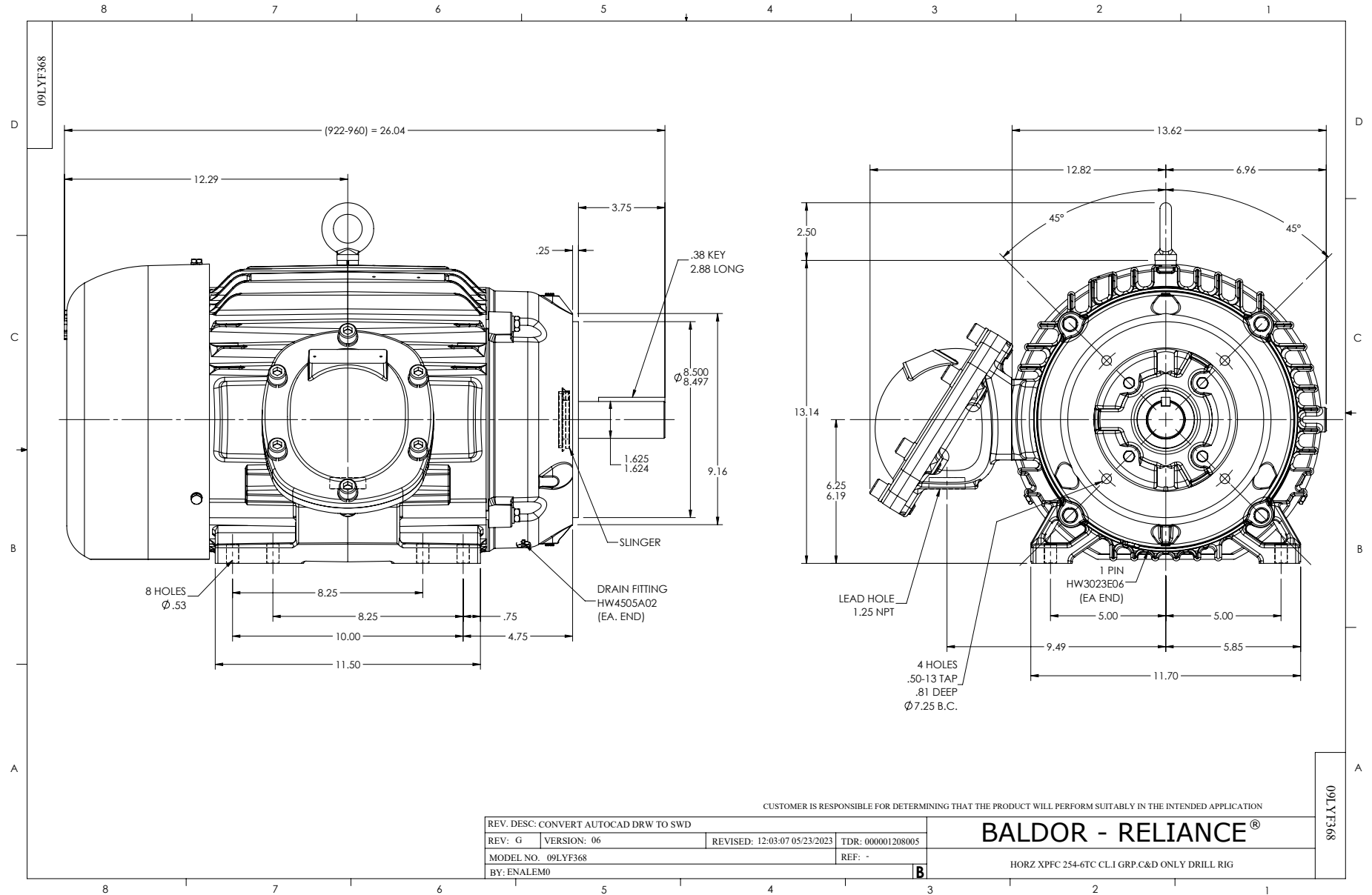
Typical performance - not guaranteed values.

7.5 HP 3 PH 50 HZ 984 RPM 380 V 0956M

TORQUES (LB-FT): PO=141 PU=56.44 LR=77.49 LRA=93.43



5/12/2025 ACPERF, record # 75809



CD0005

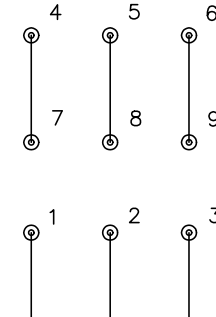


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS