

**BALDOR • RELIANCE**

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# Customer information packet

## CPX14246T

2//1.5HP, 1760//1465RPM, 3PH, 60//50HZ, 145T

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

## Specifications

Enclosure	XPFC
Frame	145T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 50 HZ 2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 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	5.600 A @ 230.0 V 5.800 A @ 208.0 V 5.300 A @ 190.0 V 2.800 A @ 460.0 V 2.650 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

## Part detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	05WGX509
Layout	05LY-000-046
Eff. date	01-18-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	86.5 %
<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>	2.7 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	L
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	2700 rpm
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0526M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	16.66 IN
<b>Power Factor</b>	76
<b>Product Family</b>	Super-E Chemical Processing
<b>Pulley Face Code</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	0.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Speed</b>	1760 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>	No Vibration Sensor
<b>Winding Thermal 1</b>	None

**Winding Thermal 2**

**None**

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**Nameplate**

NP2033XPSLEV										
<b>NO.</b>		<b>CC</b>	010A							
<b>S/N</b>		<b>TEMP CODE</b>	T3C							
<b>SPEC.</b>	05-0000-1050		<b>INV.TYPE</b>	PWM						
<b>CAT.NO.</b>	CPX14246T		<b>C HP FR</b>	60	<b>C HP TO</b>	90				
<b>HP</b>	2//1.5		<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>	5.6/2.8//5.3/2.65		<b>MAG CUR</b>	3.4/1.7						
<b>RPM</b>	1760//1465		<b>MX RPM</b>	2700						
<b>HZ</b>	60//50	<b>PH</b>	3	<b>CL</b>	F	<b>NOM.EFF.</b>	86.5			
<b>SER.F.</b>	1.00	<b>DES</b>	B	<b>SL HZ</b>	1.3	<b>WK2</b>	0.189			
<b>FRAME</b>	145T	<b>RATING</b>	40C AMB-CONT							
<b>BLANK</b>	55C AT 1.00SF SINEWAVE									
	1.15 SF SINEWAVE		<b>IP55</b>							

**AC Induction Motor Performance Data**

Record # 75769

Typical performance - not guaranteed values

<b>Winding:</b> 05WGX095-R007		<b>Type:</b> 0528M		<b>Enclosure:</b> XPFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	2//1.5		<b>Full Load Torque</b>	5.96 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	5.8/2.9//5.4/2.7		<b>Breakdown Torque</b>	23.5 LB-FT	
<b>R.P.M.</b>	1750//1450		<b>Pull-up Torque</b>	14.36 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	15.77 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		L	<b>Starting Current</b>	22.29 A
<b>Service Factor (S.F.)</b>			1	<b>No-load Current</b>	1.84 A
<b>NEMA Nom. Eff.</b>	86.5	<b>Power Factor</b>	75	<b>Line-line Res. @ 25°C</b>	8.02 Ω
<b>Rating - Duty</b>	40C AMB-CONT			<b>Temp. Rise @ Rated Load</b>	54°C
				<b>Locked-rotor Power Factor</b>	52.4
				<b>Rotor inertia</b>	0.165 LB-FT <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 2 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	51	63	72	78	81
<b>Efficiency</b>	76.7	85.1	87.1	87.4	86.6	85.4
<b>Speed</b>	1790	1781	1770	1759	1746	1734
<b>Line amperes</b>	1.94	2.19	2.53	2.95	3.47	4.02

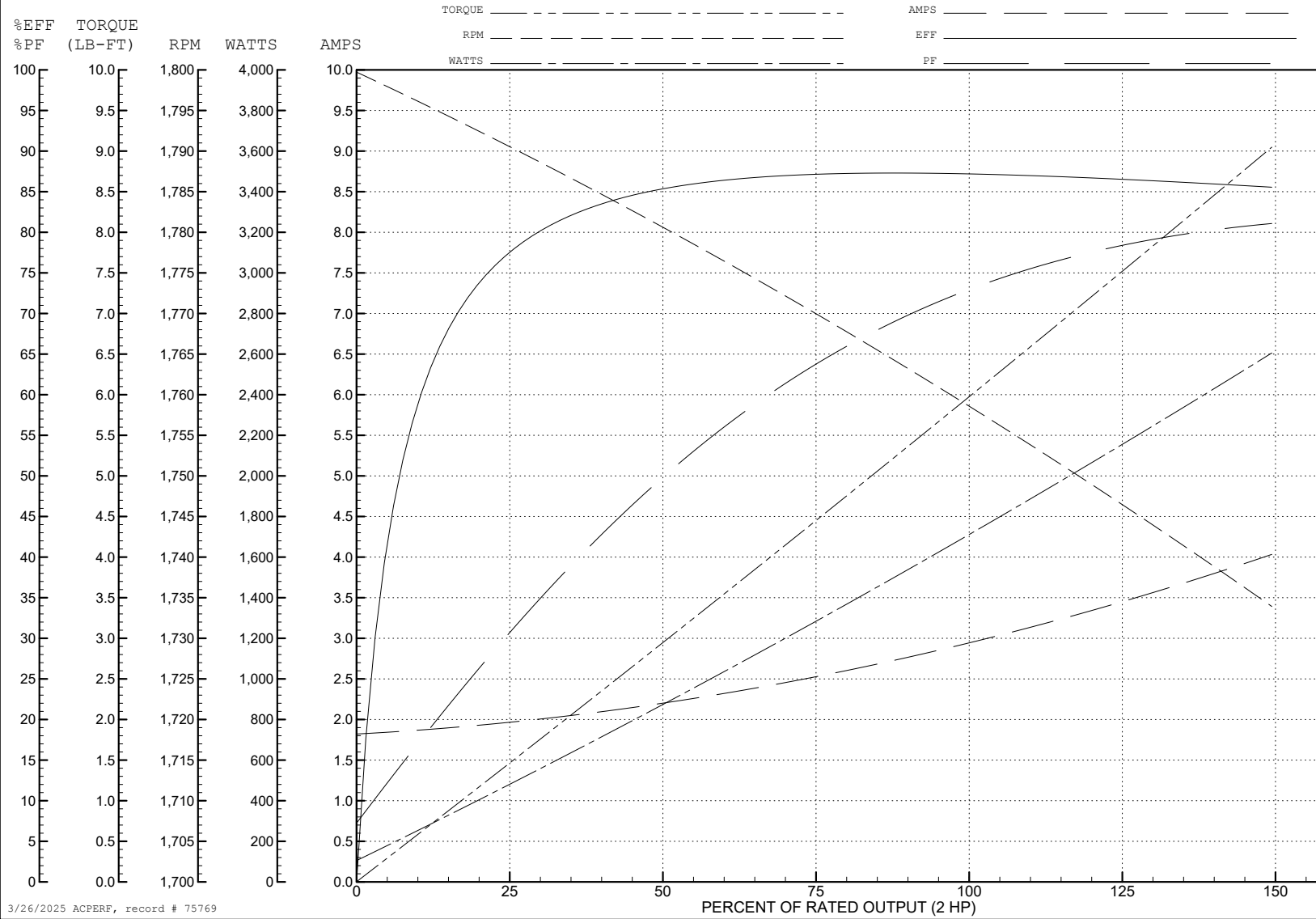
ABB Motors and Mechanical Inc.

WINDING # 05WGX095

2 HP 3 PH 60 HZ 1759 RPM 460 V 0528M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=23.5 PU=14.36 LR=15.77 LRA=22.29



3/26/2025 ACPERF, record # 75769

**AC Induction Motor Performance Data**

Record # 75774

Typical performance - not guaranteed values

Winding: 05WGX095-R007		Type: 0528M	Enclosure: XPFC			
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>			
Rated Output (HP)	2//1.5		Full Load Torque	5.38 LB-FT		
Volts	230/460//190/380		Start Configuration	direct on line		
Full Load Amps	5.8/2.9//5.4/2.7		Breakdown Torque	21.67 LB-FT		
R.P.M.	1750//1450		Pull-up Torque	14.21 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	15.61 LB-FT	
NEMA Design Code	B		KVA Code	L	Starting Current	20.98 A
Service Factor (S.F.)	1				No-load Current	1.79 A
NEMA Nom. Eff.	86.5	Power Factor	75		Line-line Res. @ 25°C	8.02 Ω
Rating - Duty	40C		AMB-CONT		Temp. Rise @ Rated Load	49°C
					Locked-rotor Power Factor	57.8
					Rotor inertia	0.165 LB-FT <sup>2</sup>

**Load Characteristics 380 V, 50 Hz, 1.5 HP**

% of Rated Load	25	50	75	100	125	150
Power Factor	30	49	62	71	77	81
Efficiency	74.2	83.2	85.8	86.1	85.3	84.1
Speed	1491	1482	1473	1462	1451	1439
Line amperes	1.87	2.09	2.39	2.76	3.23	3.72



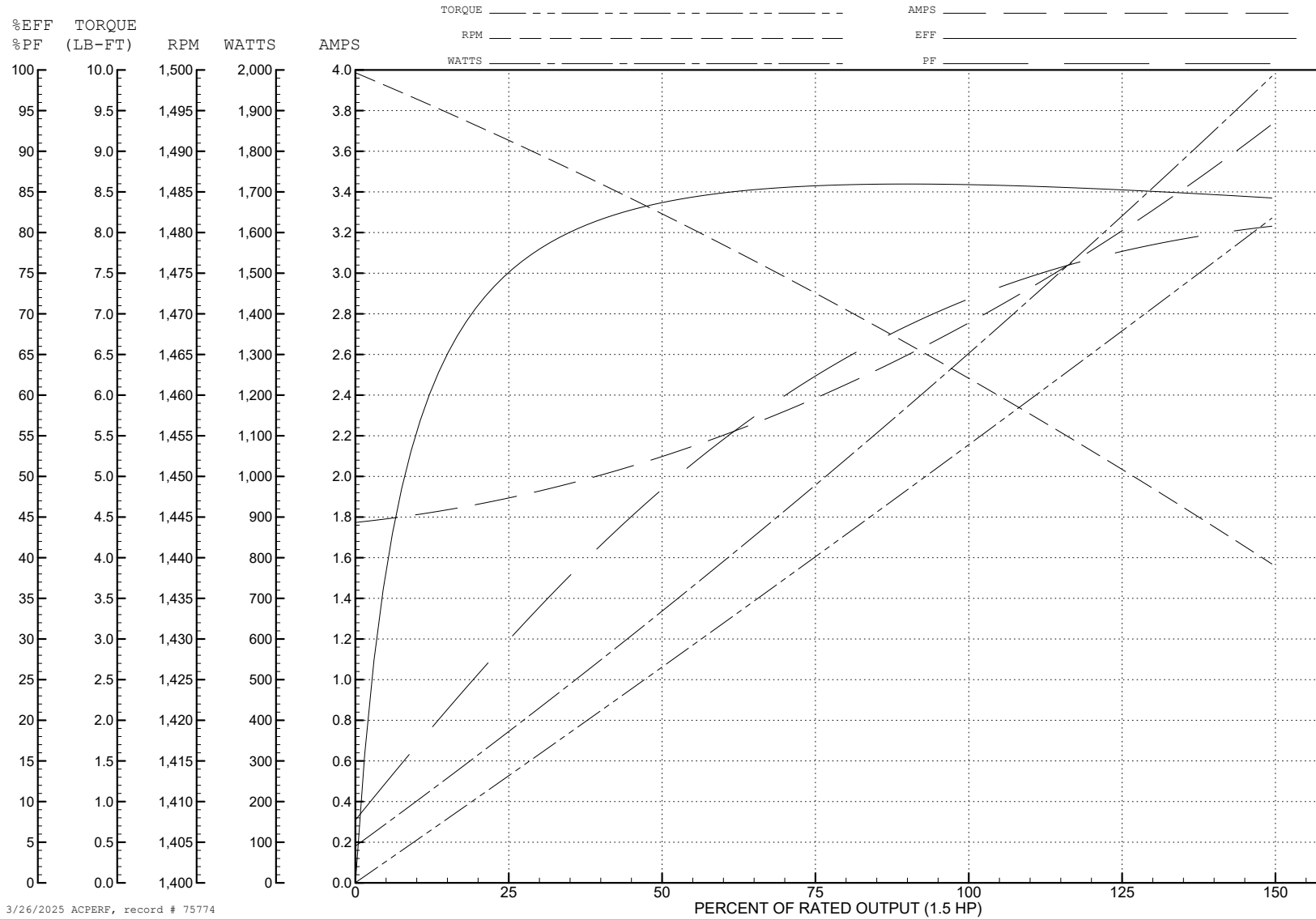
ABB Motors and Mechanical Inc.

WINDING # 05WGX095

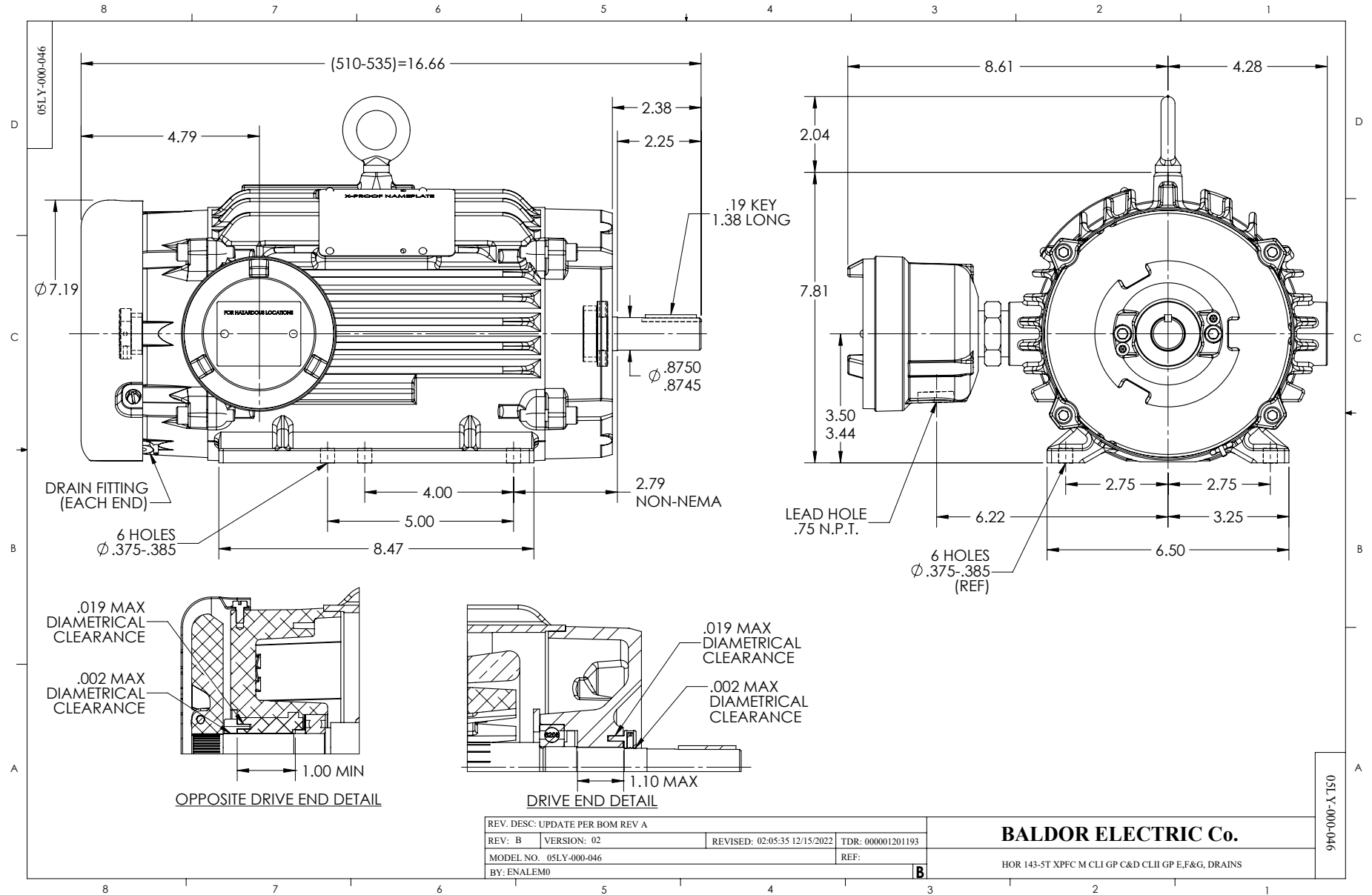
1.5 HP 3 PH 50 HZ 1462 RPM 380 V 0528M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=21.67 PU=14.21 LR=15.61 LRA=20.98



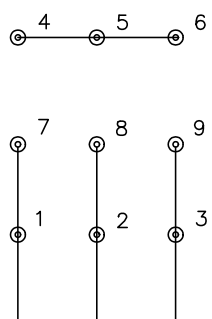
3/26/2025 ACPERF, record # 75774



CD0005

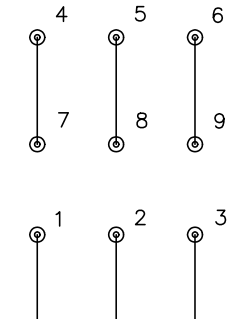


LOW VOLTAGE (2Y)



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