

ABB BALDOR RELIANCE III

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
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	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

Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.7 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.66 IN
Power Factor	76
Product Family	Super-E Chemical Processing
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1760 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

NP2033XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE		T3C			
SPEC.	05-0000-1050					INV.TYPE		PWM			
CAT.NO.	CPX14246T					C HP FR	60	C HP TO	90		
HP	2//1.5					CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380					VT HZ FROM		6	VT HZ TO		60
AMPS	5.6/2.8//5.3/2.65				MAG CUR	3.4/1.7					
RPM	1760//1465				MX RPM	2700					
HZ	60//50	PH	3	CL	F	NOM.EFF.		86.5			
SER.F.	1.00	DES	B	SL HZ	1.3	WK2	0.189				
FRAME	145T	RATING		40C AMB-CONT							
BLANK	55C AT 1.00SF SINEWAVE										
	1.15 SF SINEWAVE				IP55						

AC Induction Motor Performance Data

Record # 75769

Typical performance - not guaranteed values

Winding: 05WGX095-R007			Type: 0528M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2//1.5		Full Load Torque		5.96 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		23.5 LB-FT		
R.P.M.		1750//1450		Pull-up Torque		14.36 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		15.77 LB-FT	
NEMA Design Code		B		KVA Code	L	Starting Current		22.29 A
Service Factor (S.F.)		1		No-load Current		1.84 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		54°C		
				Locked-rotor Power Factor		52.4		
				Rotor inertia		0.165 LB-FT2		

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	31	51	63	72	78	81
Efficiency	76.7	85.1	87.1	87.4	86.6	85.4
Speed	1790	1781	1770	1759	1746	1734
Line amperes	1.94	2.19	2.53	2.95	3.47	4.02

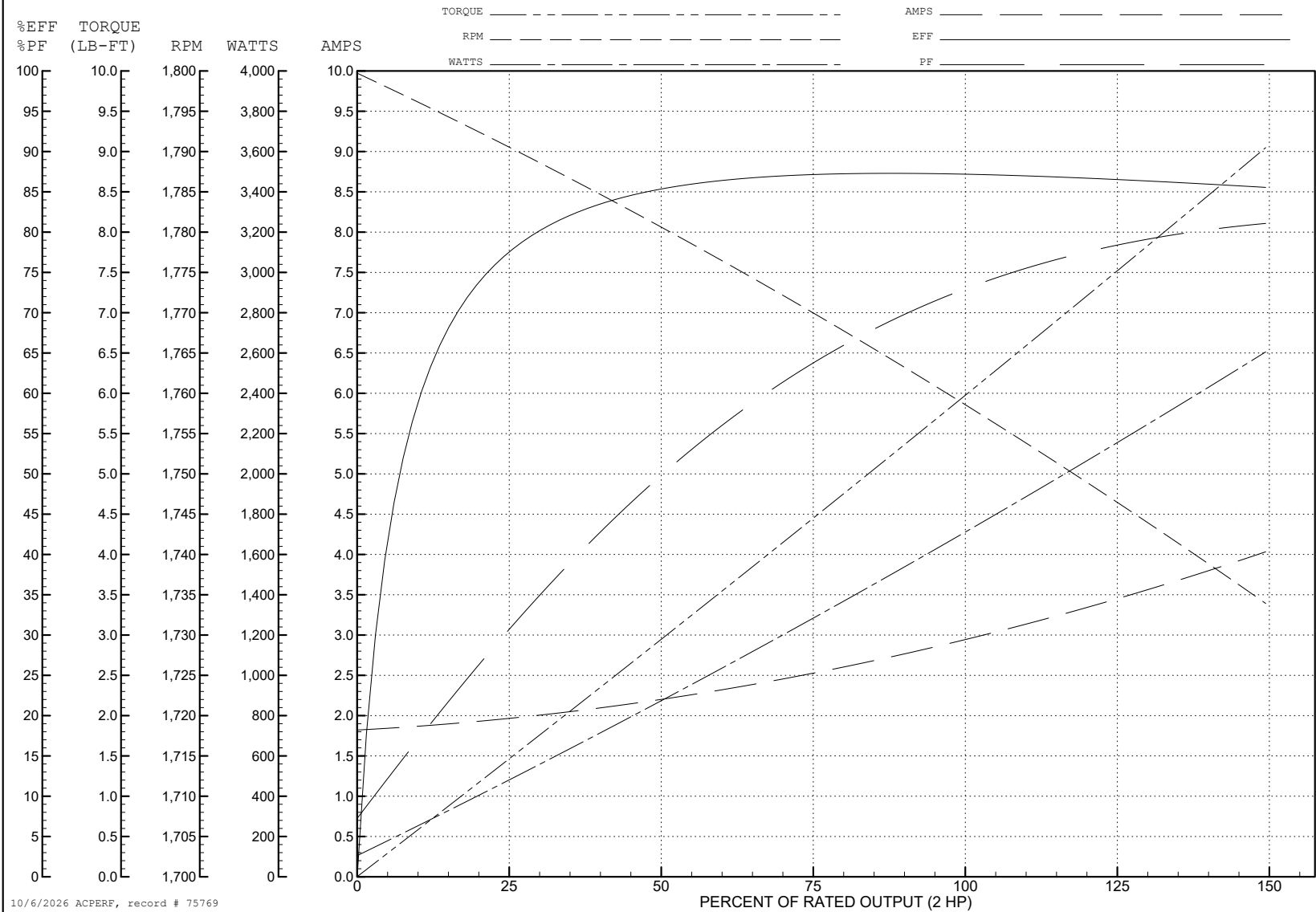
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WINDING # 05WGX095

Typical performance - not guaranteed values.

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

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



AC Induction Motor Performance Data

Record # 75774

Typical performance - not guaranteed values

Winding: 05WGX095-R007			Type: 0528M		Enclosure: XPFC		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
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-FT2	

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

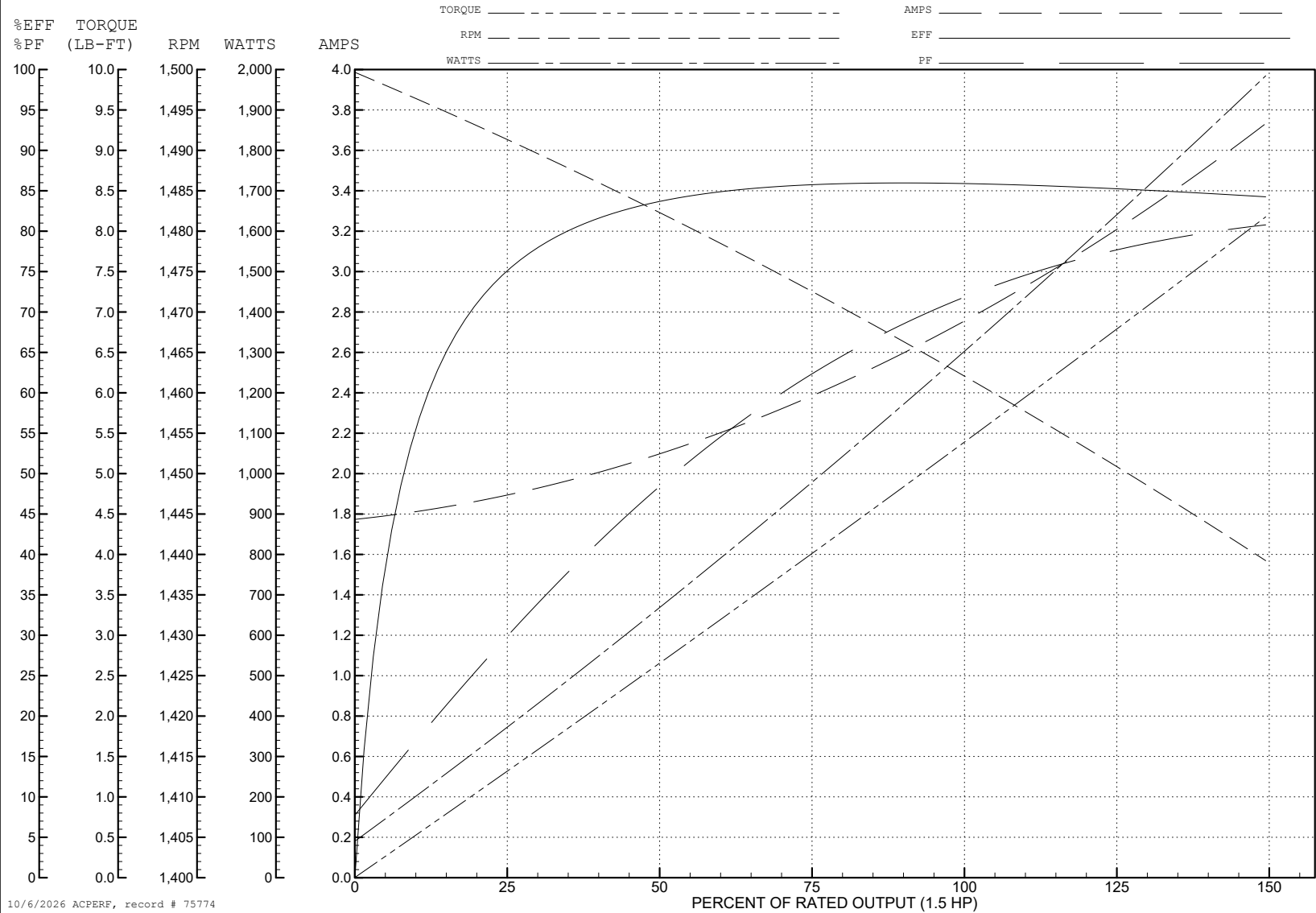
ABB Motors and Mechanical Inc.

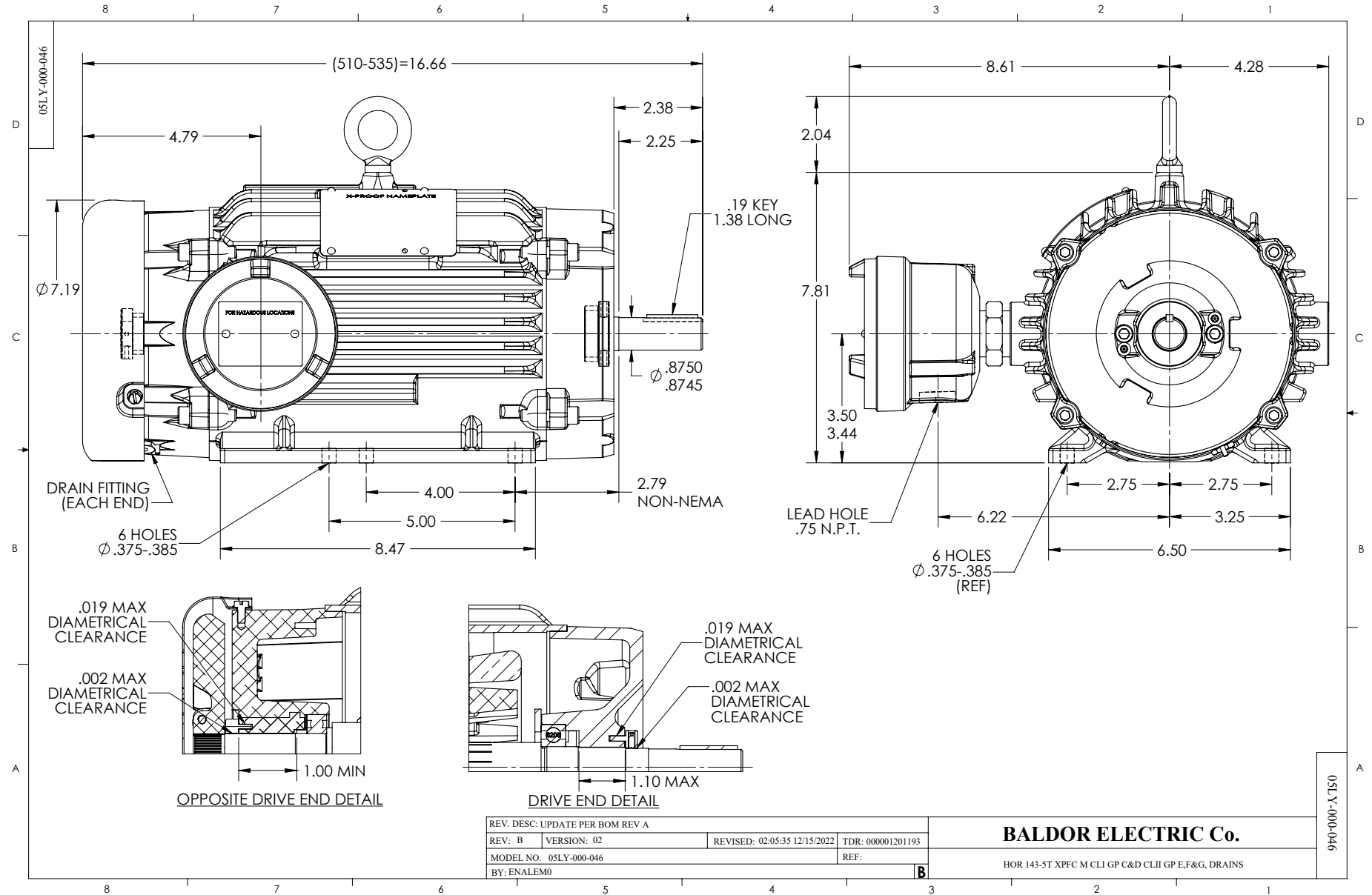
WINDING # 05WGX095

Typical performance - not guaranteed values.

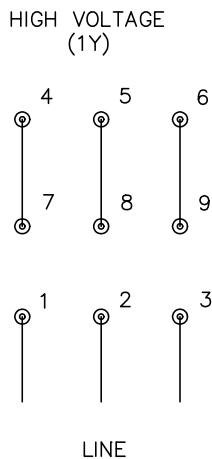
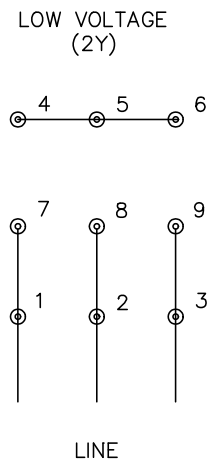
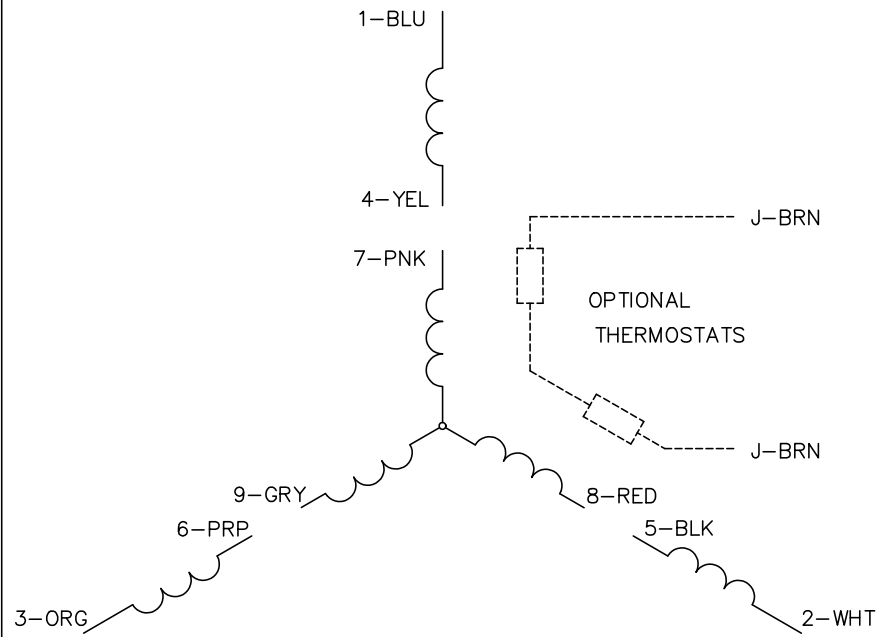
1.5 HP 3 PH 50 HZ 1462 RPM 380 V 0528M

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





CD0005



- 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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
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BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005