

ABB BALDOR RELIANCE III

Customer information packet

CPX281566T

15HP, 1175//985RPM, 3PH, 60HZ, 284TY, XPFC, F1

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	284TY
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	10.000 HP @ 50 HZ 15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ 190.0 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	42.000 A @ 230.0 V 42.000 A @ 208.0 V 36.000 A @ 190.0 V 21.000 A @ 460.0 V 18.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY561
Layout	10LY-000-121
Eff. date	06-11-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	04-25-2019

Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	18.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.74 IN
Power Factor	73
Product Family	Chemical Process Features
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1175 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.	10-0000-0752						INV.TYPE	PWM				
CAT.NO.	CPX281566T						C HP FR	60	C HP TO	90		
HP	15//10						CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380						VT HZ FROM	6	VT HZ TO	60		
AMPS	42/21//36/18				MAG CUR		22/11					
RPM	1175//985				MX RPM		1800					
HZ	60//50	PH	3	CL	F	NOM.EFF.		91.7				
SER.F.	1.00	DES	A	SL HZ	1.3	WK2	4.9					
FRAME	284TY	RATING		40C AMB-CONT								
BLANK	55C AMB @ 1.00 SF, 60C RISE											
	1.15SF ON SINEWAVE						NEMA MG-1 PT.5,IP55					

AC Induction Motor Performance Data

Record # 67038

Typical performance - not guaranteed values

Winding: 10WGY561-R013				Type: 1046M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15		Full Load Torque		66.68 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		42/21		Breakdown Torque		213 LB-FT	
R.P.M.		1175		Pull-up Torque		93.1 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		A		KVA Code		H	
Service Factor (S.F.)		1		No-load Current		12.4 A	
NEMA Nom. Eff.		91.7		Power Factor		73	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	32	52	65	72	76	78
Efficiency	83	89.4	91.3	91.7	91.4	90.8
Speed	1196	1193	1189	1185	1181	1177
Line amperes	13.2	15.1	17.9	21.3	25.3	29.6

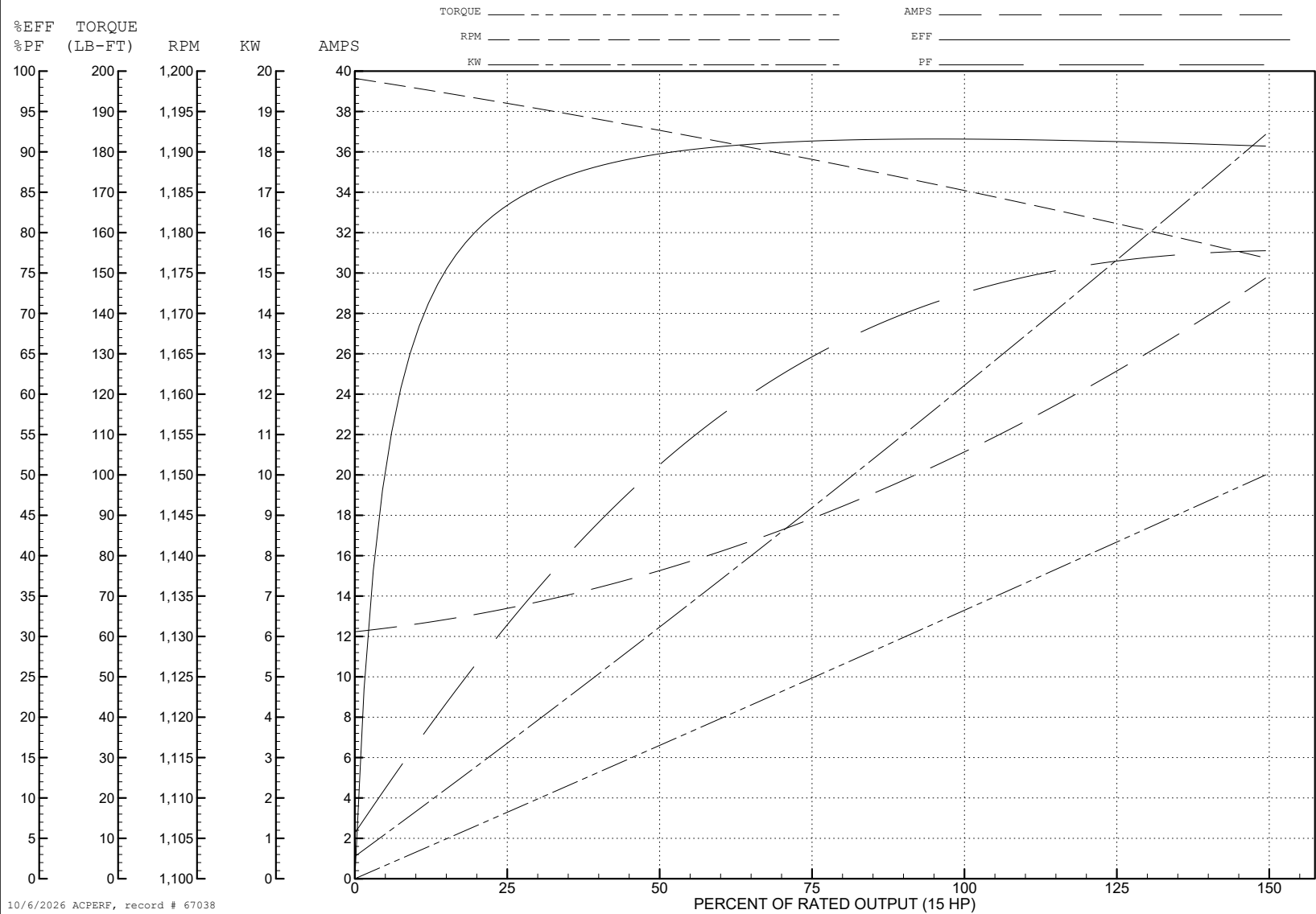
ABB Motors and Mechanical Inc.

WINDING # 10WGY561

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1175 RPM 460 V 1046M

TORQUES (LB-FT): PO=213 PU=93.1 LR=114 LRA=144



AC Induction Motor Performance Data

Record # 75699

Typical performance - not guaranteed values

Winding: 10WGY561-R010			Type: 1046M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		15//10		Full Load Torque		53.33 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		42/21//36/18		Breakdown Torque		205 LB-FT		
R.P.M.		1175//985		Pull-up Torque		95.7 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		117 LB-FT	
NEMA Design Code		A		KVA Code	H	Starting Current		139 A
Service Factor (S.F.)		1		No-load Current		12.06 A		
NEMA Nom. Eff.		91.7	Power Factor		73	Line-line Res. @ 25°C		0.502 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C		
				Locked-rotor Power Factor		36.5		
				Rotor inertia		5.63 lb-ft²		

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	46	59	67	72	76
Efficiency	80.7	88.1	90.4	91.1	91	90.5
Speed	997	994	991	988	985	981
Line amperes	12.64	14.01	16.05	18.57	21.57	24.81

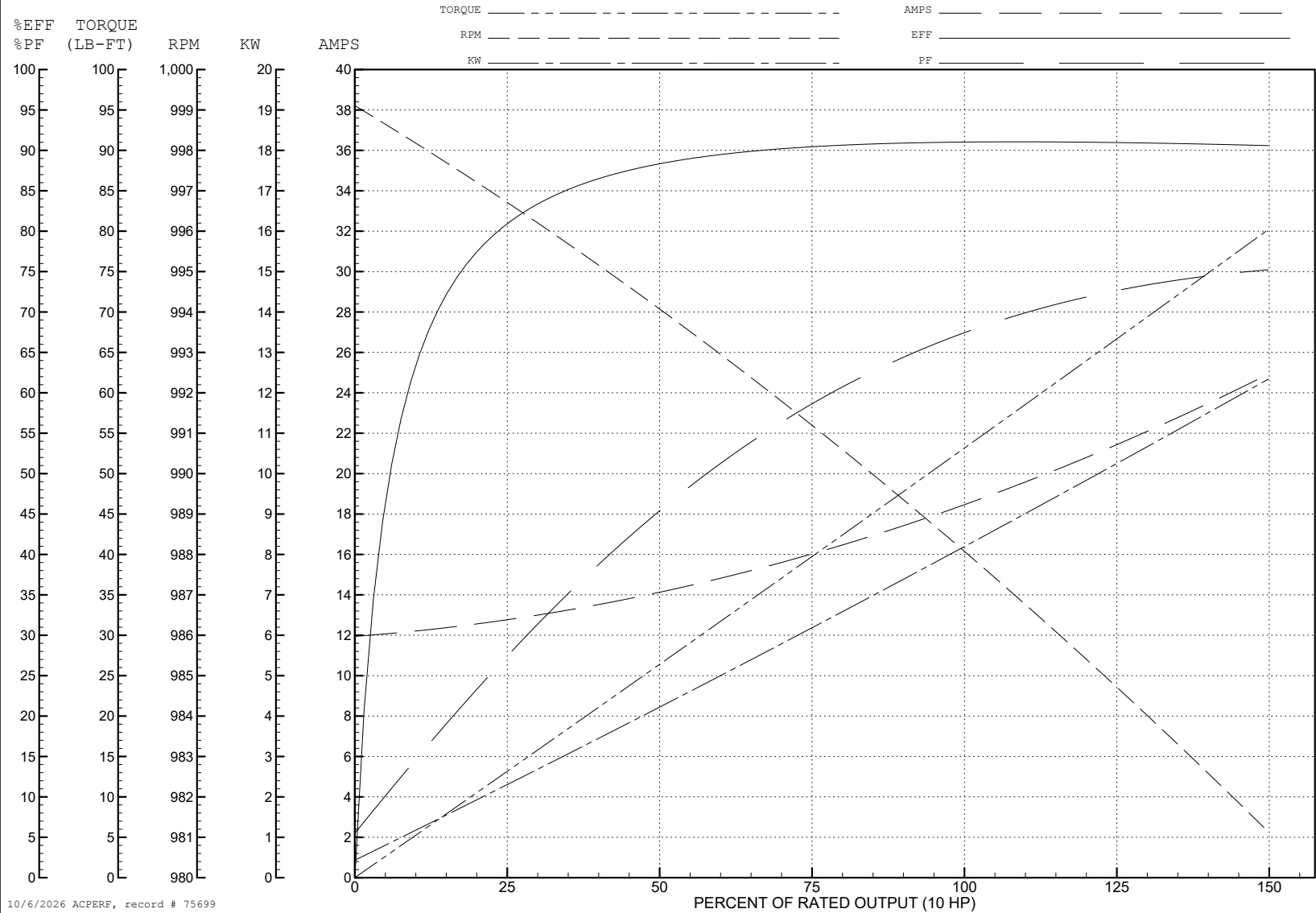
ABB Motors and Mechanical Inc.

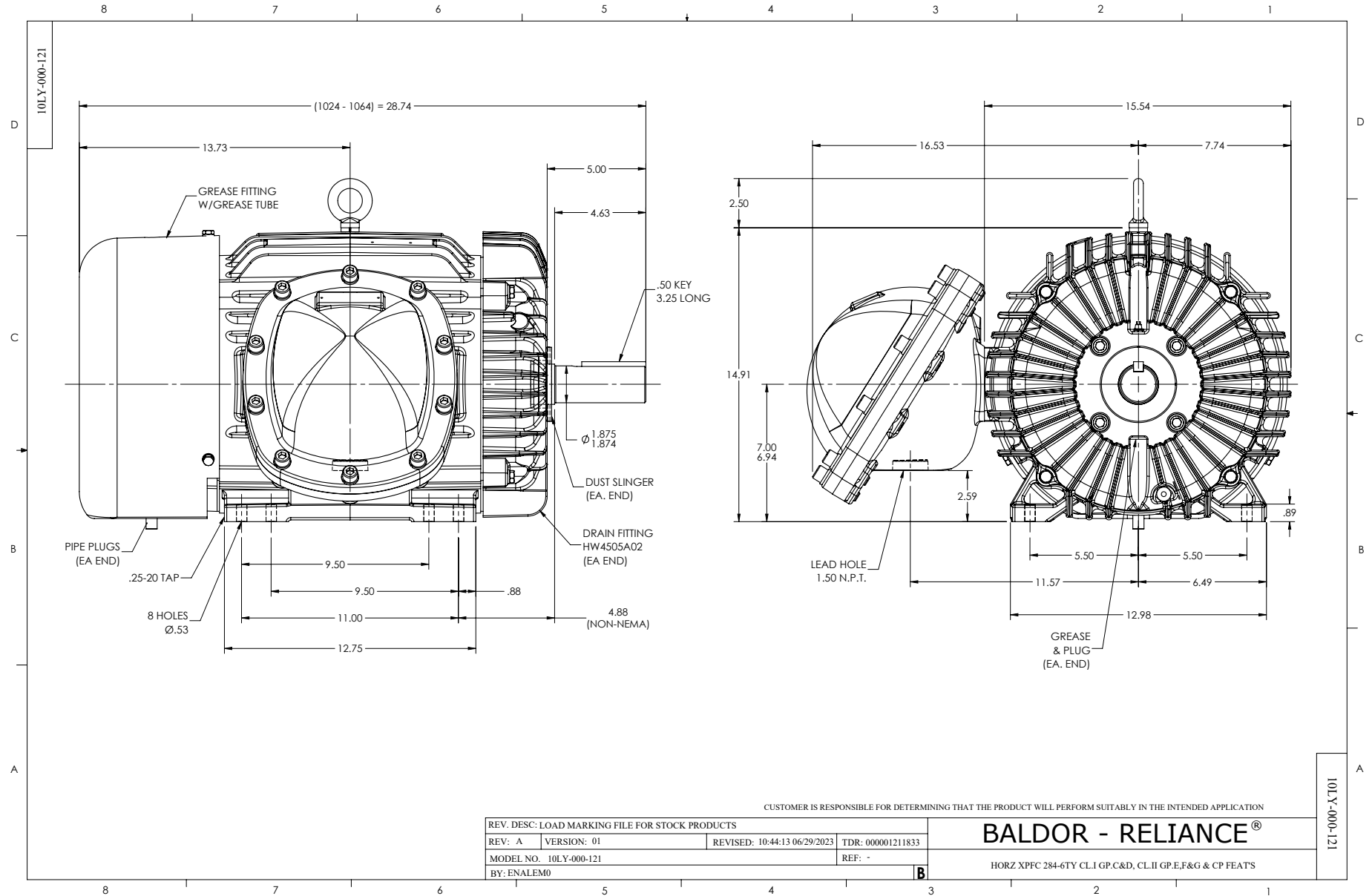
WINDING # 10WGY561

Typical performance - not guaranteed values.

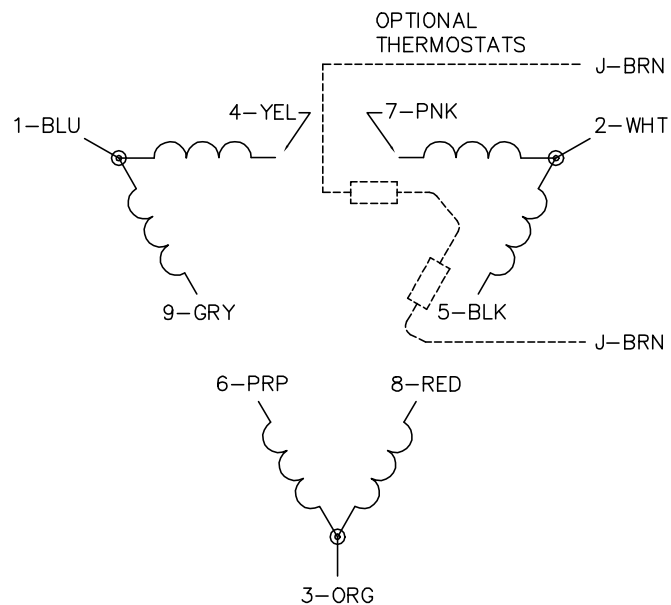
10 HP 3 PH 50 HZ 988 RPM 380 V 1046M

TORQUES (LB-FT) : PO=205 PU=95.7 LR=117 LRA=139

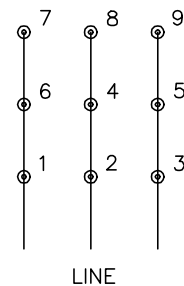




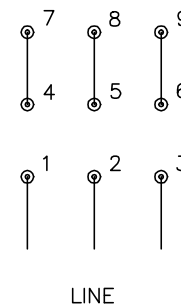
CD0180



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

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1