

ABB BALDOR RELIANCE III

Customer information packet

CPX28346T

30HP, 1770//1470RPM, 3PH, 60HZ, 286T, XPFC, F1

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	286T
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	25.000 HP @ 50 HZ 30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 50 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	UL CSA EEV
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	76.000 A @ 230.0 V 76.000 A @ 190.0 V 38.000 A @ 460.0 V 38.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY538
Layout	10LY-000-185
Eff. date	06-05-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	02-19-2019

Efficiency @ 100% Load	93.6 %
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	38.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.67 IN
Power Factor	80
Product Family	Super-E Chemical Processing
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	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.	10-0000-0556						INV.TYPE		PWM				
CAT.NO.	CPX28346T						C HP FR	60	C HP TO	90			
HP	30//25/30						CT HZ FROM		6	CT HZ TO		60	
VOLTS	230/460						VT HZ FROM		3	VT HZ TO		60	
AMPS	76/38//76/38						MAG CUR		39.6/19.8				
RPM	1760//1475						MX RPM		2700				
HZ	60//50/6	PH	3	CL	F	NOM.EFF.		93.6					
SER.F.	1.00	DES	A	SL HZ		1.3	WK2		4.46				
FRAME	286T	RATING		40C AMB-CONT									
BLANK	55C AMB @ 1.0SF, 60C RISE												
	1.15SF ON SINEWAVE						NEMA MG-1 PT.5,IP55						

AC Induction Motor Performance Data

Record # 83882

Typical performance - not guaranteed values

Winding: 10WGY538-R047			Type: 1056M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		30//25		Full Load Torque		88.7 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		76/38		Breakdown Torque		330 LB-FT	
R.P.M.		1760//1475		Pull-up Torque		142 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		178 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		270 A
Service Factor (S.F.)		1		No-load Current		17.9 A	
NEMA Nom. Eff.		93.6	Power Factor	80	Line-line Res. @ 25°C		0.19377 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C	
				Locked-rotor Power Factor		30.9	
				Rotor inertia		4.47 lb-ft²	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	41	63	73	80	82	85
Efficiency	87.6	92.3	93.5	93.7	93.4	92.9
Speed	1792.2	1787.6	1782.4	1776.5	1770.3	1762.1
Line amperes	19.8	24.3	30.7	37.6	45.6	55.2

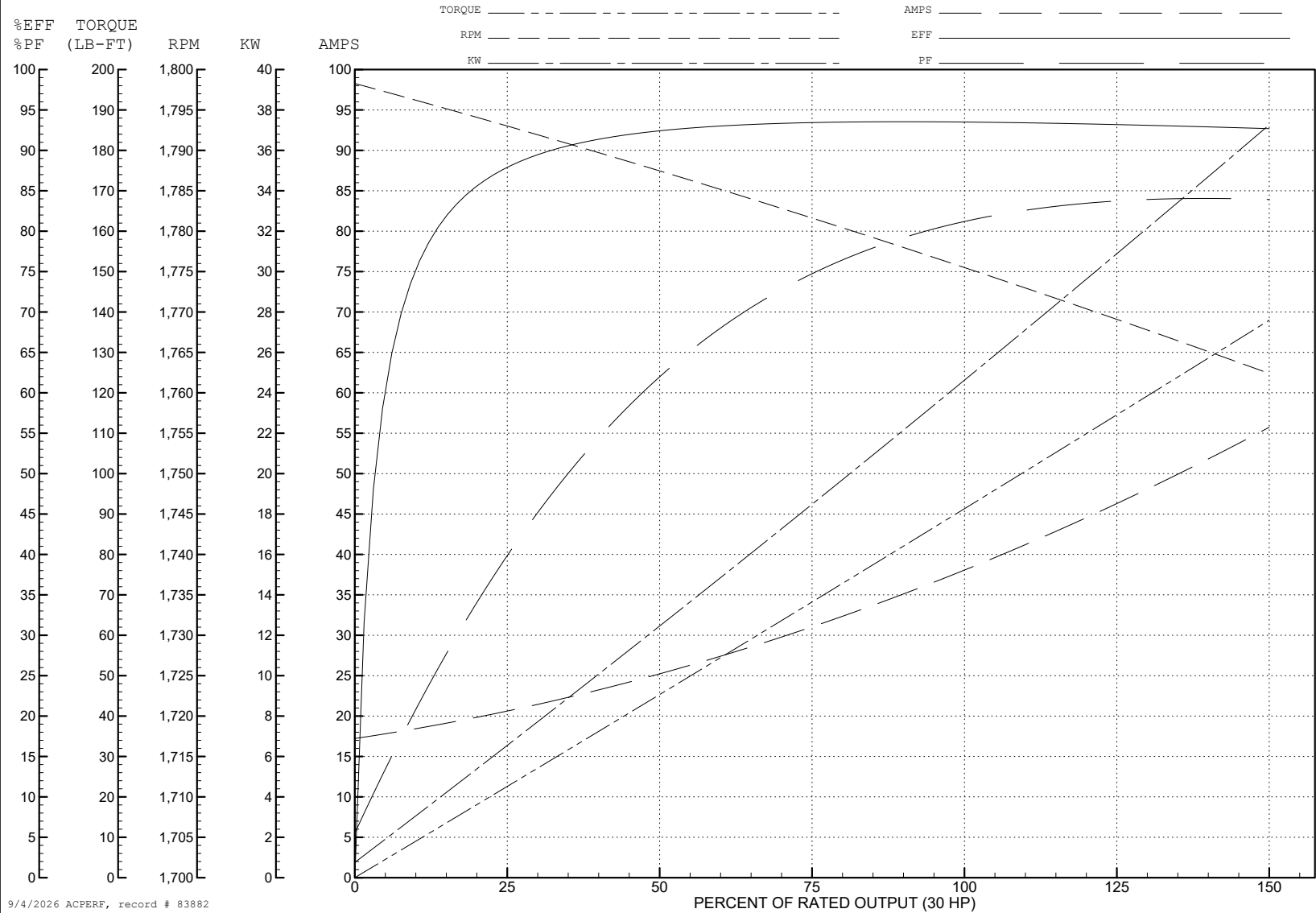
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WINDING # 10WGY538

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1776.5 RPM 460 V 1056M

TORQUES (LB-FT): PO=330 PU=142 LR=178 LRA=270



AC Induction Motor Performance Data

Record # 99504

Typical performance - not guaranteed values

Winding: 10WGY538-R047			Type: 1056M	Enclosure: XPFC			
Nameplate Data			380 V, 50 Hz: Single Voltage Motor				
Rated Output (HP)		30//25	Full Load Torque		88.91 LB-FT		
Volts		230/460//190/380	Start Configuration		direct on line		
Full Load Amps		76/38//76/38	Breakdown Torque		320 LB-FT		
R.P.M.		1760//1475	Pull-up Torque		146 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		183 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		257 A
Service Factor (S.F.)		1	No-load Current		17.32 A		
NEMA Nom. Eff.		93.6	Power Factor	80	Line-line Res. @ 25°C		0.202 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		63°C
					Locked-rotor Power Factor		34
					Rotor inertia		4.47 lb-ft²

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	42	64	75	81	83	85
Efficiency	88.3	92.2	93.2	93.3	92.5	92.1
Speed	1493	1488	1483	1477	1470	1462
Line amperes	19.24	23.86	30.44	37.54	45.78	55.71

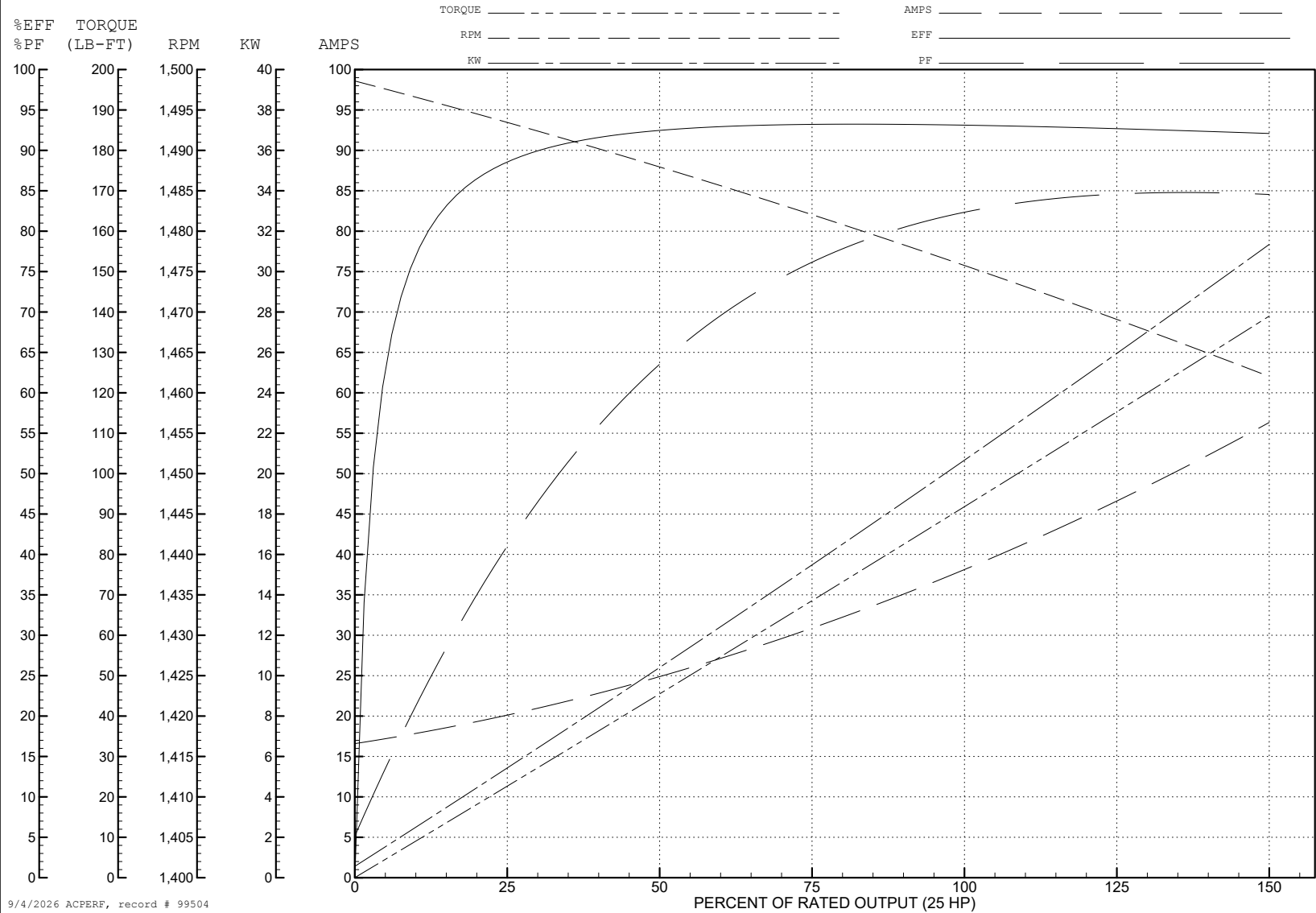
ABB Motors and Mechanical Inc.

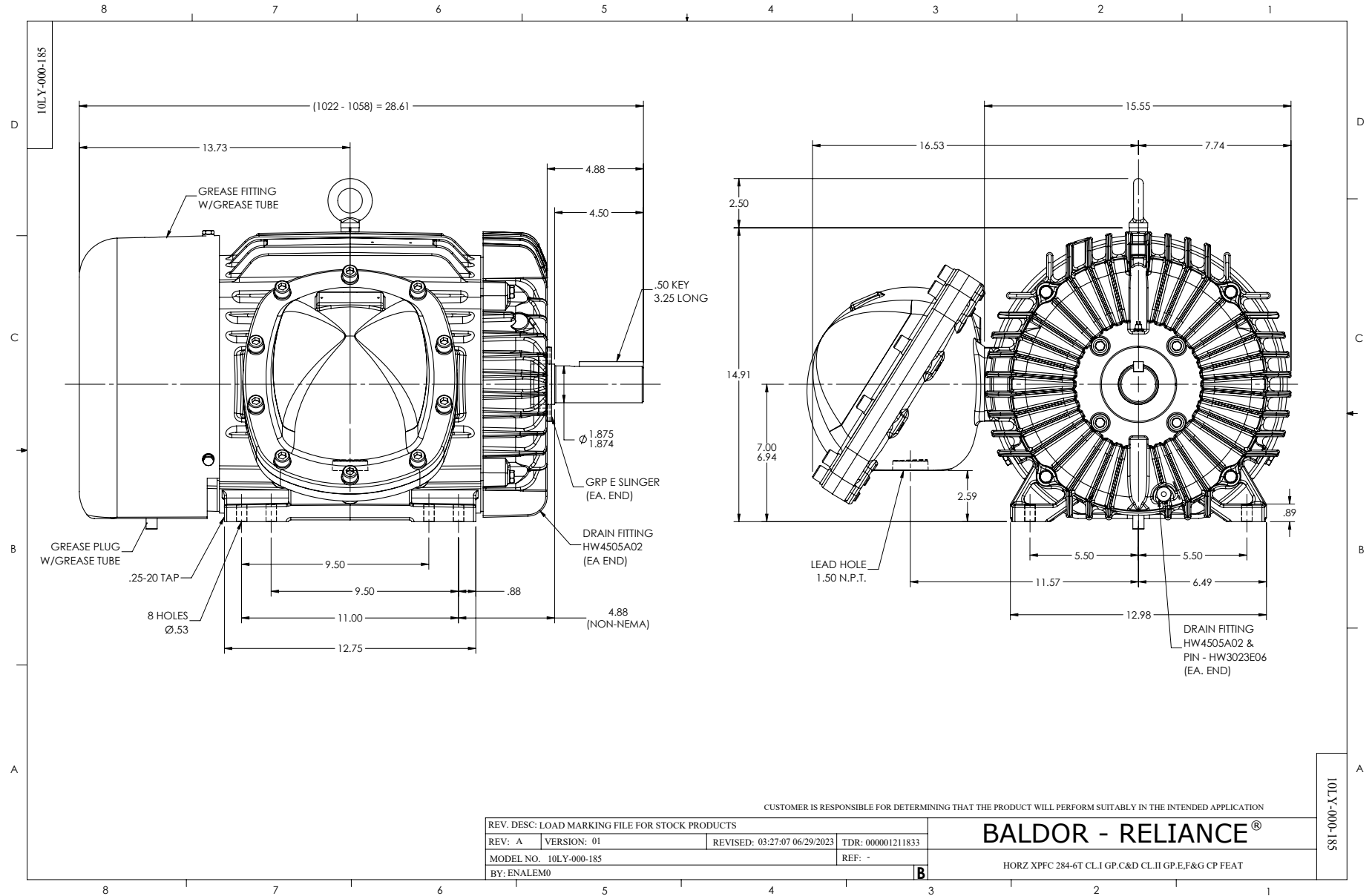
WINDING # 10WGY538

Typical performance - not guaranteed values.

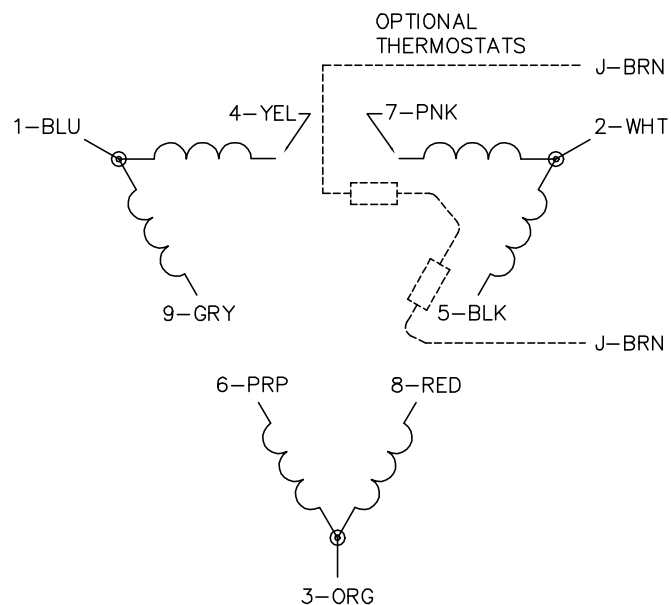
25 HP 3 PH 50 HZ 1477 RPM 380 V 1056M

TORQUES (LB-FT): PO=320 PU=146 LR=183 LRA=257

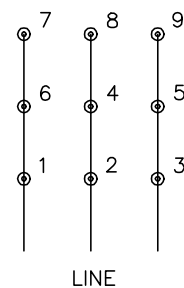




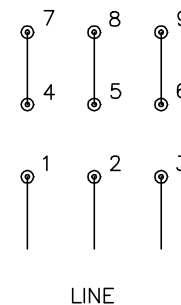
CD0180



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

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