BALDOR • RELIANCE

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

1/21/2025 8:58:01 AM

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
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	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	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY538
Layout	10LY-000-185
Eff. date	11-05-2024
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				**CT HZ FROM**	6	**CT HZ TO**	60			
VOLTS	230/460//190/380				**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	**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. @ 25ºC**	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

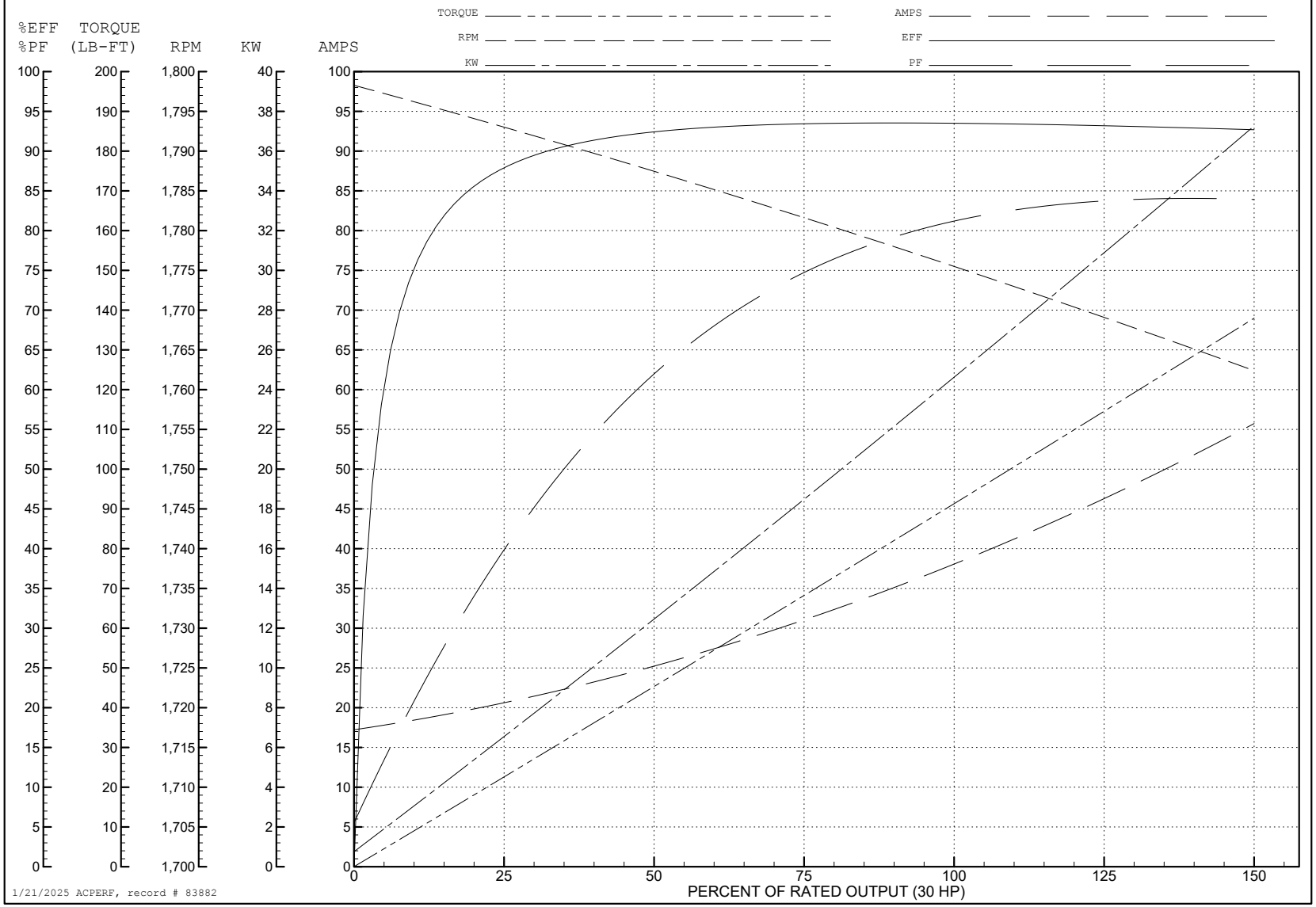
ABB Motors and Mechanical Inc.

WINDING # 10WGY538

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

Typical performance - not guaranteed values.

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. @ 25ºC**	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

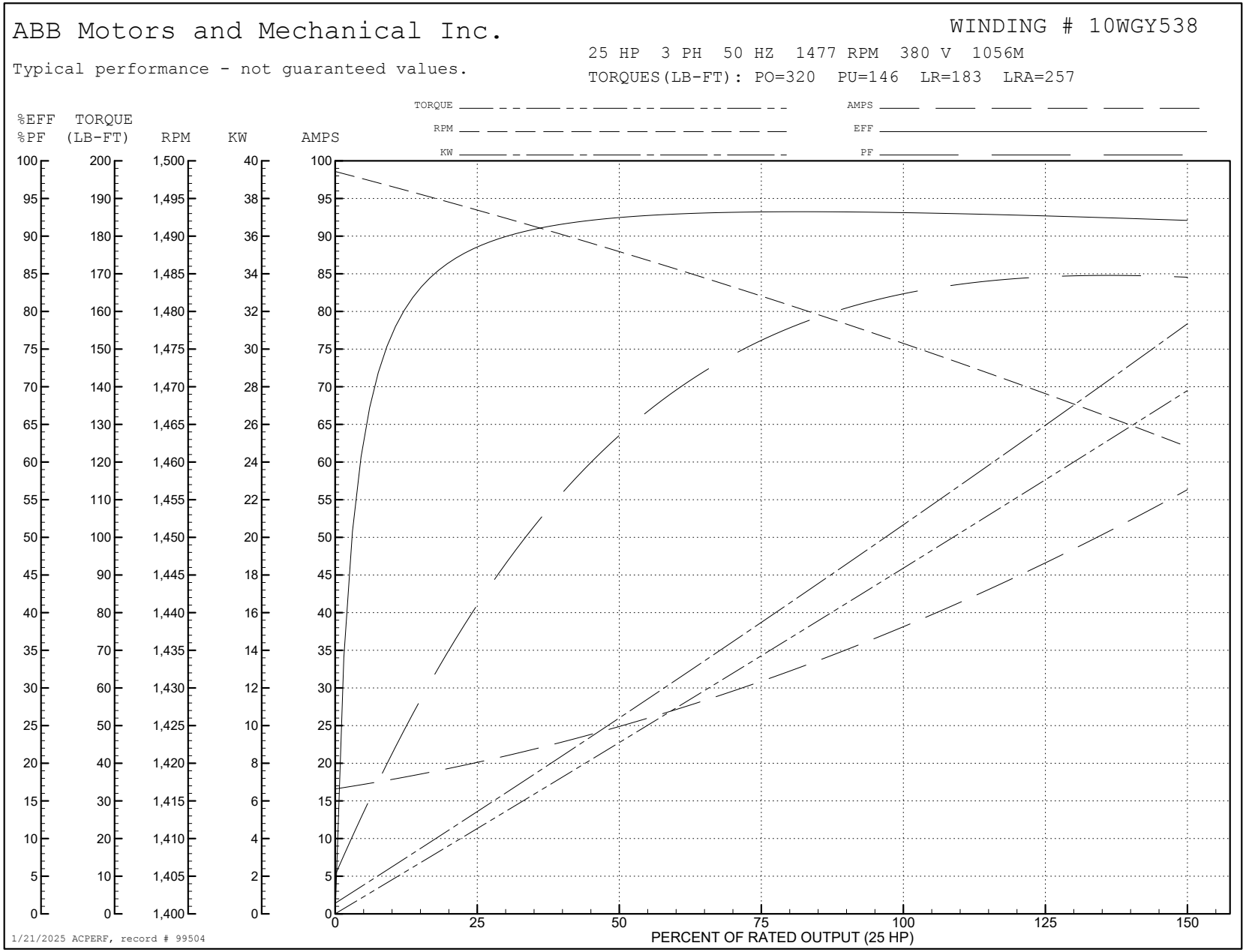
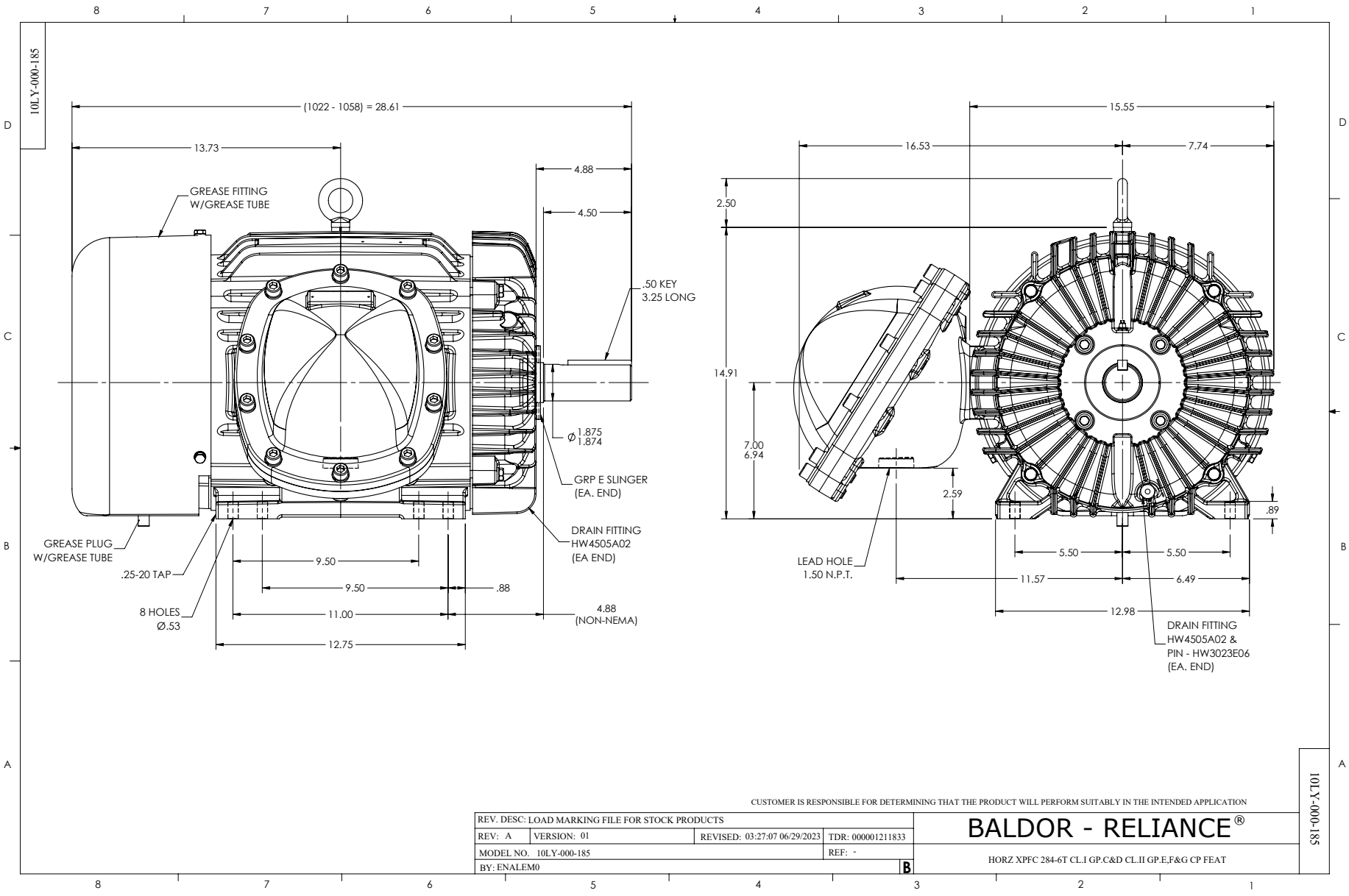
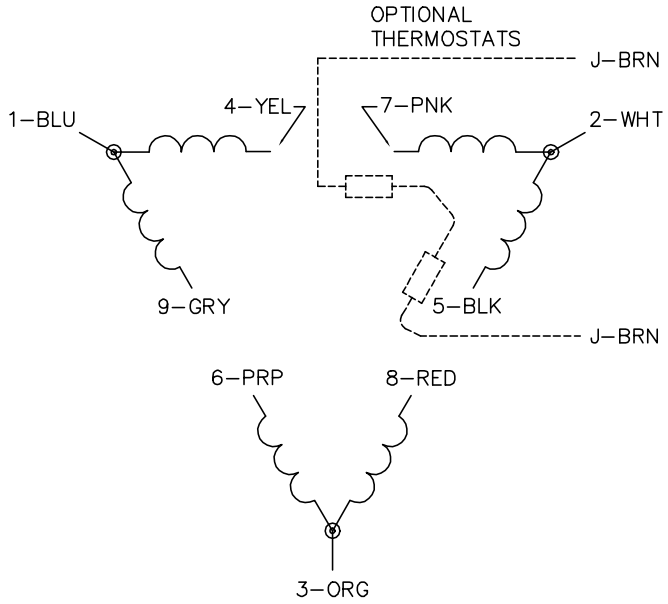
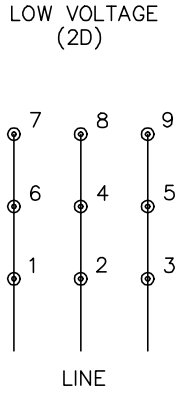


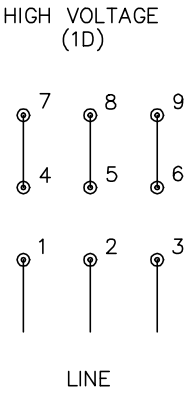
ABB Motors and Mechanical Inc.
WINDING # 10WGY538
25 HP 3 PH 50 HZ 1477 RPM 380 V 1056M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=320 PU=146 LR=183 LRA=257
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
1/21/2025 ACPERF, record # 99504


10LY-000-185
(1022 - 1058) = 28.61
13.73
4.88
4.50
GREASE FITTING
W/GREASE TUBE
.50 KEY
3.25 LONG
Ø 1.875
1.874
GRP E SLINGER
(EA. END)
DRAIN FITTING
HW4505A02
(EA END)
GREASE PLUG
W/GREASE TUBE
.25-20 TAP
8 HOLES
Ø.53
9.50
9.50
.88
11.00
12.75
4.88
(NON-NEMA)
15.55
16.53
7.74
2.50
14.91
7.00
6.94
2.59
.89
LEAD HOLE
1.50 N.P.T.
5.50
5.50
11.57
6.49
12.98
DRAIN FITTING
HW4505A02 &
PIN - HW3023E06
(EA. END)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD MARKING FILE FOR STOCK PRODUCTS
REV: A
VERSION: 01
REVISED: 03:27:07 06/29/2023
TDR: 000001211833
MODEL NO. 10LY-000-185
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6T CL.I GP.C&D CL.II GP.E,F&G CP FEAT
10LY-000-185

CD0180







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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1