ABB BALDOR RELIANCE

Customer information packet

XM28322T

30//25HP, 3525//2920RPM, 3PH, 60//50HZ, 286T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	286TS
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
	25.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 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	34.000 A @ 460.0 V
	35.000 A @ 380.0 V
	68.000 A @ 230.0 V
	70.000 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ501
Layout	10LYE900
Eff. date	07-17-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	04-21-2021

Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	34.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.24 IN
Power Factor	90
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3525 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

NP0887XPSLEV									
NO.				**CC**	010A				
S/N				**TEMP CODE**	T3C				
SPEC.	10-0000-2077			**INV.TYPE**	PWM				
CAT.NO.	XM28322T			**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**	6			**VT HZ TO**	60
AMPS	68/34//70/35			**MAG CUR**	8.7				
RPM	3525//2920			**MX RPM**	5400				
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91.7		
SER.F.	1.00	**DES**	B	**SL HZ**	1.3	**WK2**	2.07		
FRAME	286TS	**RATING**	40C AMB-CONT						
	NEMA MG-1 PART 5, IP54								
	1.15 SF ON SINE WAVE								

AC Induction Motor Performance Data
Record # 70639
Preliminary Data Sheet

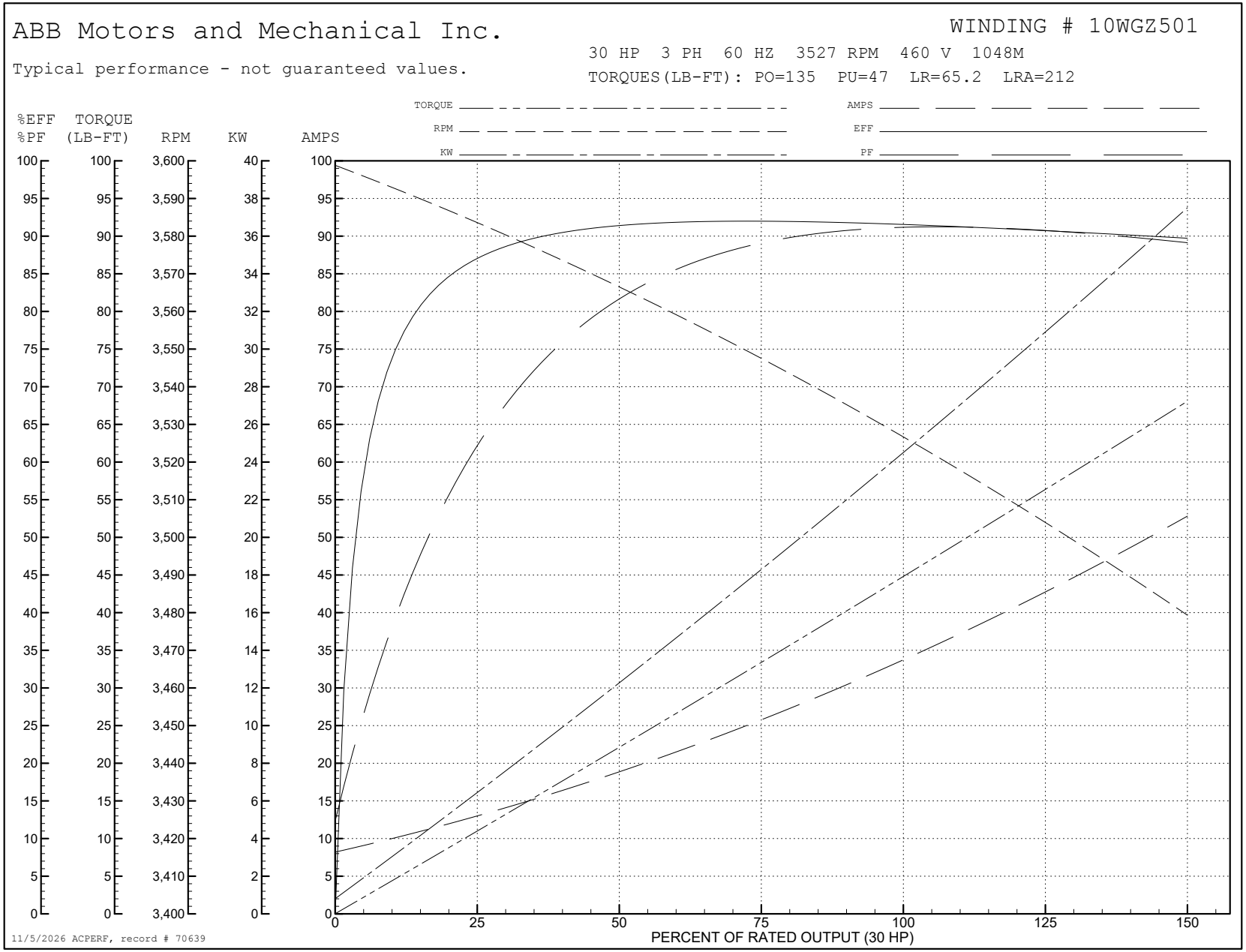
Winding: 10WGZ501-R012	**Type:** 1048M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			30//25
Volts			230/460//190/380
Full Load Amps			68/34//70/35
R.P.M.			3525//2920
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	90
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	44.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	135 LB-FT
Pull-up Torque	47 LB-FT
Locked-rotor Torque	65.2 LB-FT
Starting Current	212 A
No-load Current	8.74 A
Line-line Res. @ 25ºC	0.237 Ω
Temp. Rise @ Rated Load	69°C
Temp. Rise @ S.F. Load	86°C
Locked-rotor Power Factor	23.2136
Rotor inertia	2.06 lb-ft²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	67	83	88	90	90	90	90
Efficiency	86.8	91.2	91.9	91.7	90.8	89.6	91.2
Speed	3583	3566	3547	3527	3504	3479	3513
Line amperes	12.4	18.7	26.1	34.1	43.1	52.5	39.5


ABB Motors and Mechanical Inc.
WINDING # 10WGZ501
Typical performance - not guaranteed values.
30 HP 3 PH 60 HZ 3527 RPM 460 V 1048M
TORQUES(LB-FT): PO=135 PU=47 LR=65.2 LRA=212
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
11/5/2026 ACPERF, record # 70639

AC Induction Motor Performance Data
Record # 70640
Typical performance - not guaranteed values

Winding: 10WGZ501-R012	**Type:** 1048M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			30//25	**Full Load Torque**	45.05 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			68/34//70/35	**Breakdown Torque**	131 LB-FT
R.P.M.			3525//2920	**Pull-up Torque**	49.99 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	69.35 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	208 A
Service Factor (S.F.)			1.15	**No-load Current**	8.65 A
NEMA Nom. Eff.	91.7	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.237 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	71°C
S.F. Amps				**Temp. Rise @ S.F. Load**	90°C
				Locked-rotor Power Factor	26.2
				Rotor inertia	2.06 LB-FT2

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	68	84	89	90	90	90	90
Efficiency	85.7	90.4	91.1	90.7	89.7	88.3	90.1
Speed	2983	2966	2948	2928	2906	2881	2915
Line amperes	12.44	18.96	26.54	34.75	43.98	53.83	40.3

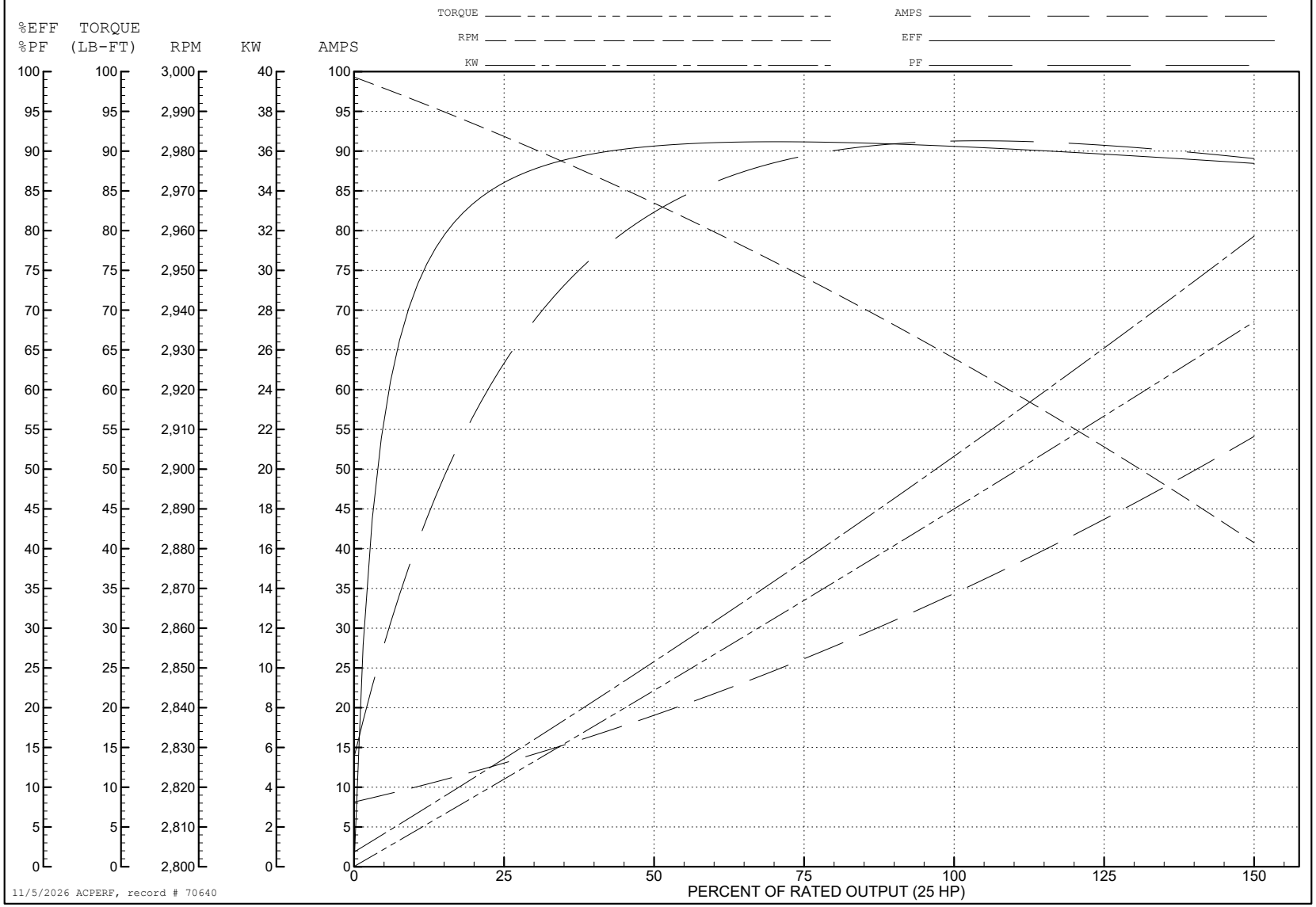
ABB Motors and Mechanical Inc.

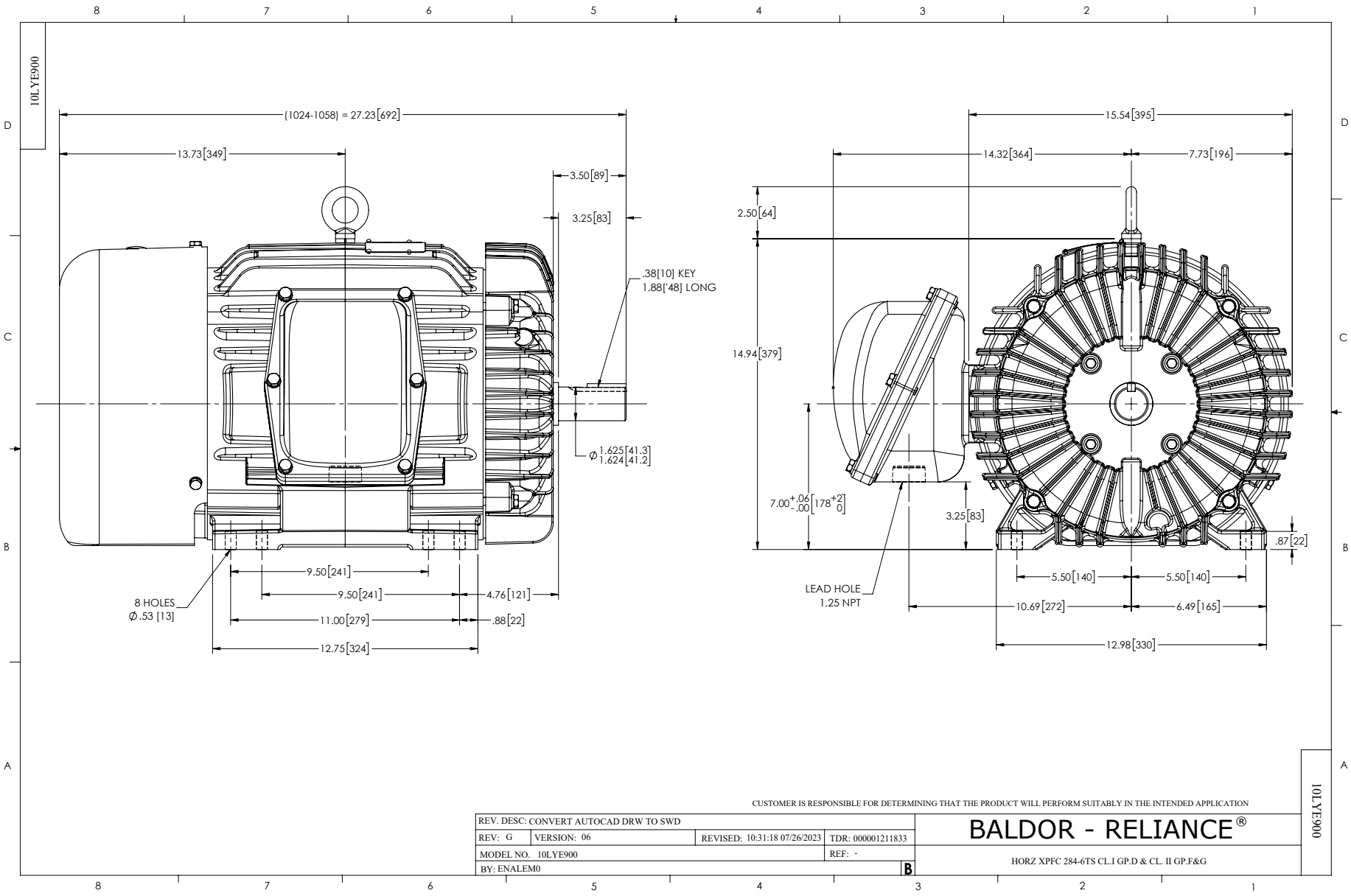
WINDING # 10WGZ501

25 HP 3 PH 50 HZ 2928 RPM 380 V 1048M

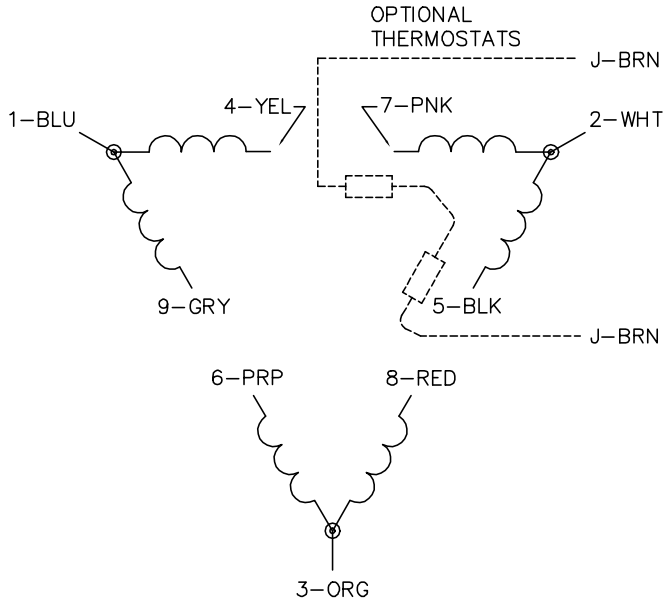
Typical performance - not guaranteed values.

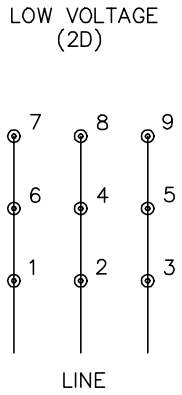
TORQUES(LB-FT): PO=131 PU=49.99 LR=69.35 LRA=208

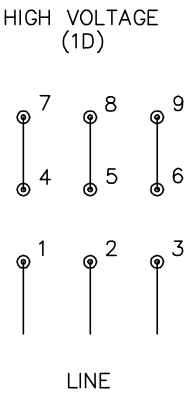



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CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: G
VERSION: 06
REVISED: 10:31:18 07/26/2023
TDR: 000001211833
MODEL NO. 10LYE900
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6TS CL.I GP.D & CL. II GP.F&G
10LYE900

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

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