ABB BALDOR RELIANCE

Customer information packet

VECP4103T

25HP, 1775RPM, 3PH, 60HZ, 284TC, 1054M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	284TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	0.8
Current @ Voltage	64.000 A @ 208.0 V
	62.000 A @ 230.0 V
	31.000 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	L
Type	AC
Mech. spec.	10G312
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYG312
Eff. date	09-29-2025
CD Diagram	CD0180
Poles	04
Leads	9#10 Y
Proprietary	False
Created date	10-19-2017

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	31.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.70 IN
Power Factor	81
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 rpm
Speed Code	Single Speed

Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3241

CAT.NO.	VECP4103T			**P/N**				**ENCLOSURE**	TEFC				
SPEC.	10G312Z651G1	**CC**	010A	**FRAME**	284TC			**S/N**					
HP	25			**CLASS**	F	**HZ**	60	**DES**	A				
RPM	1775			**RPM MAX**	2700			**PH**	3	**KVA-CODE**	J		
VOLT	230/460					**MOTOR WEIGHT**	515						
AMP	62/31			**SER.F.**	1.15	**PF**	81			**ODE BRG**	6311	**DE BRG**	6311
RATING	40C AMB-CONT					**NEMA-NOM-EFF**	93.6			**GREASE**	POLYREX EM		
								INV.TYPE	PWM				
TEMP CODE	T3C			**INVERTER-TEMP-CODE**	180								
TEMP =	160	**C HP FR**	60			**C HP TO**	90						
CT HZ FROM	0.8			**CT HZ TO**	60								
HTR-VOLTS		**HTR-AMPS**				**HTR-WATTS**				**MAX. SPACE HEATER TEMP.**		**VT HZ FROM**	O **VT HZ TO** 60

AC Induction Motor Performance Data
Record # 67465
Typical performance - not guaranteed values

Winding: 10WGZ651-R006	**Type:** 1054M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	74.02 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			62/31	**Breakdown Torque**	262 LB-FT
R.P.M.			1775	**Pull-up Torque**	118 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	142 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	223 A
Service Factor (S.F.)			1.15	**No-load Current**	13.6 A
NEMA Nom. Eff.	93.6	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.2345 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
S.F. Amps				**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	30.6

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	65	76	81	84	85	83
Efficiency	88.3	92.8	93.9	94	93.7	93.1	93.8
Speed	1794.1	1789.3	1783.5	1777.8	1770.8	1763.8	1774
Line amperes	15.3	19.3	24.6	30.6	37.2	44.5	34.6

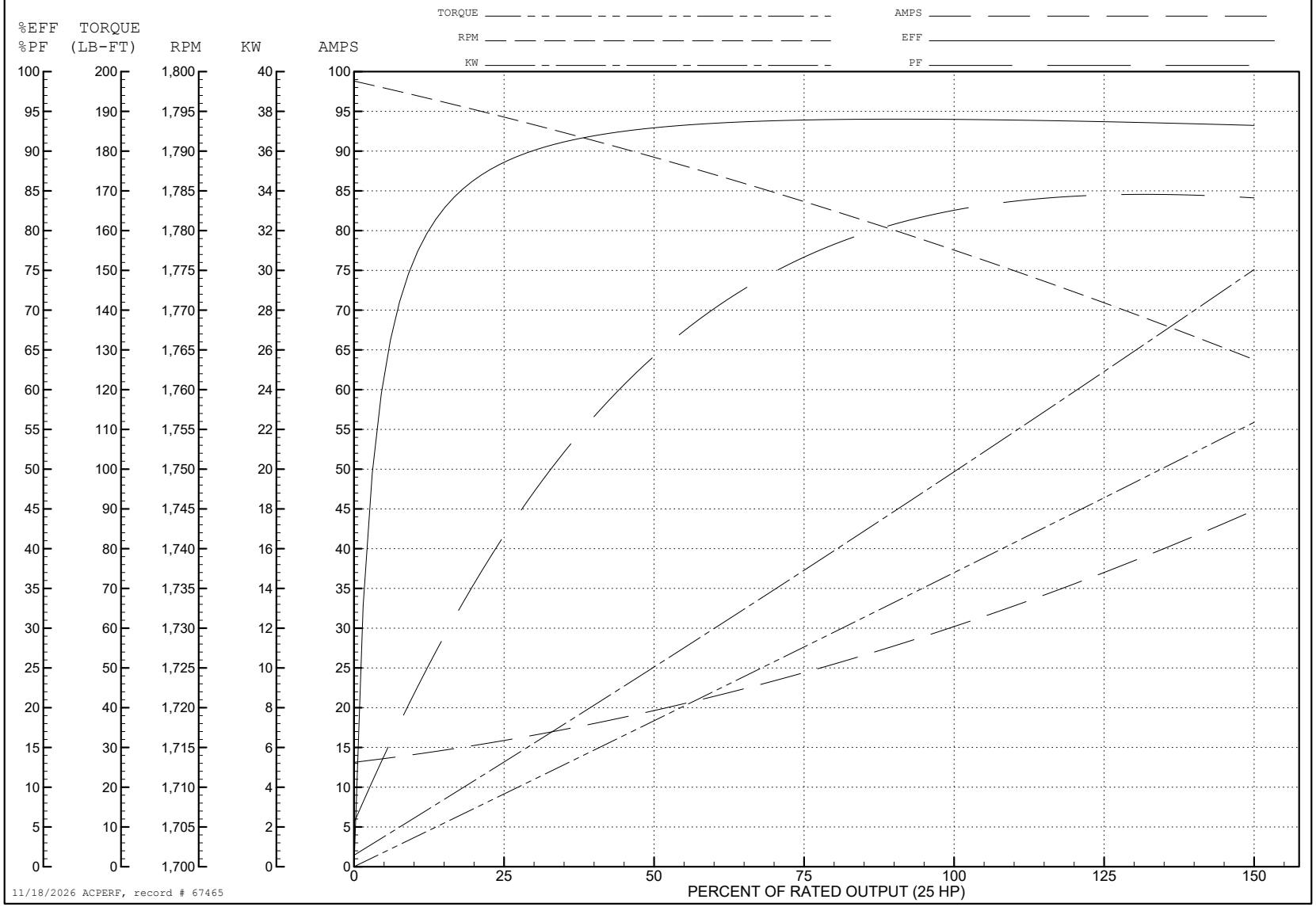
ABB Motors and Mechanical Inc.

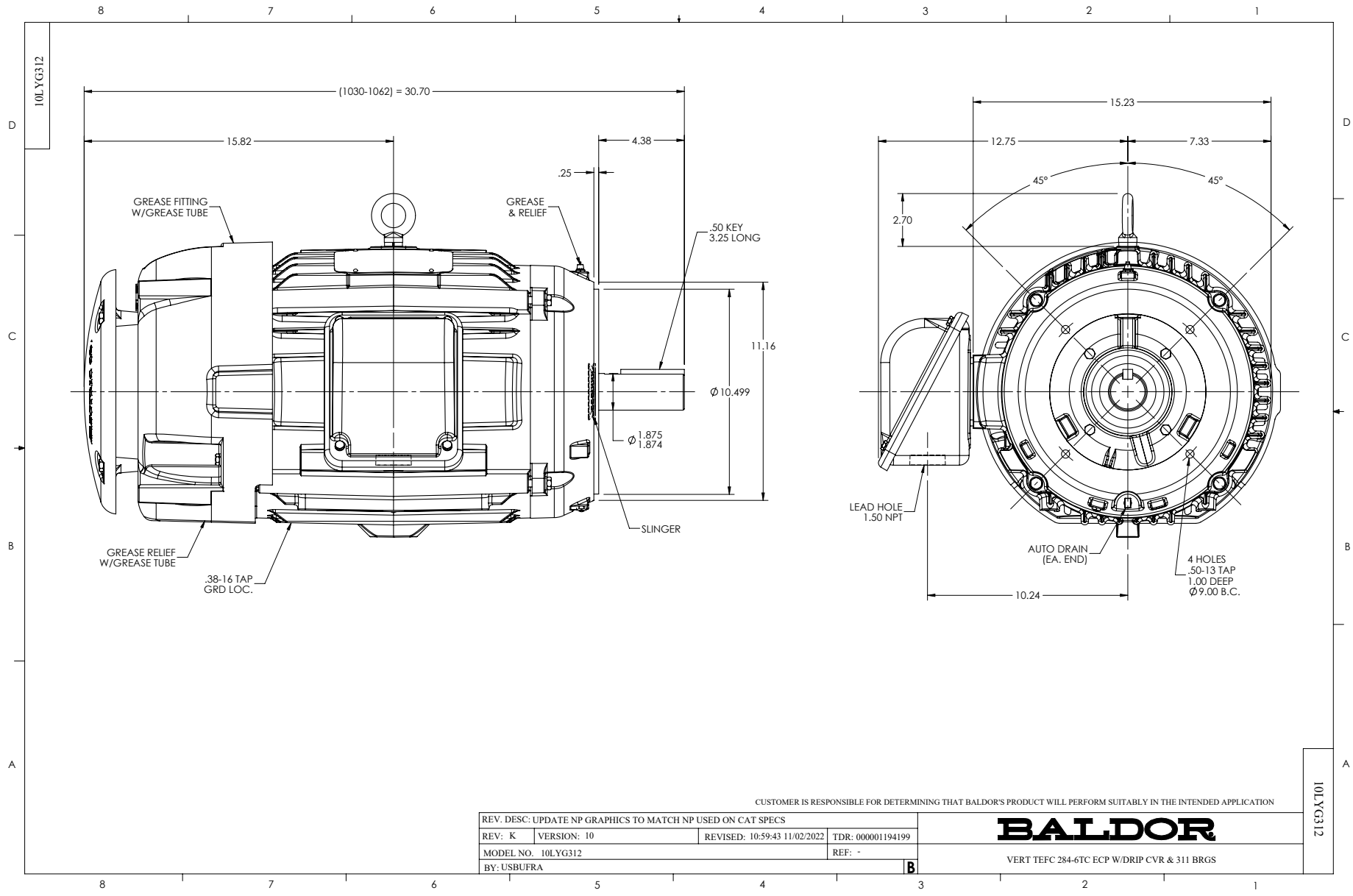
WINDING # 10WGZ651

25 HP 3 PH 60 HZ 1775 RPM 460 V 1054M

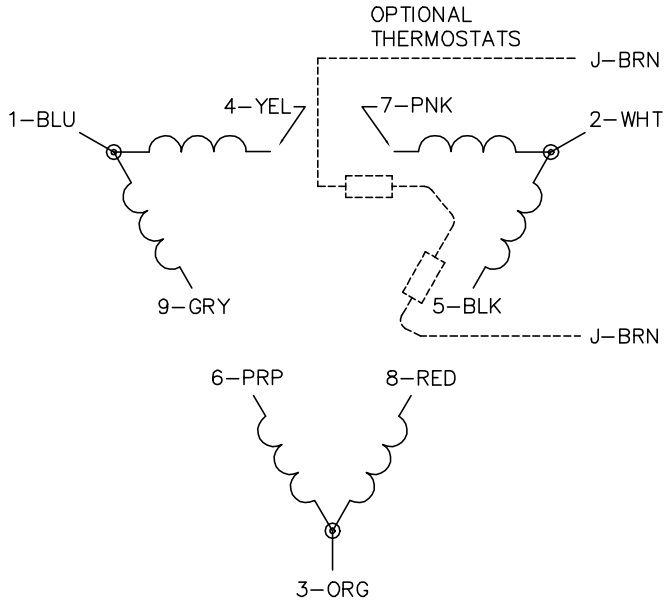
Typical performance - not guaranteed values.

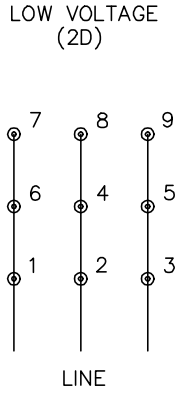
TORQUES(LB-FT): PO=262 PU=118 LR=142 LRA=223

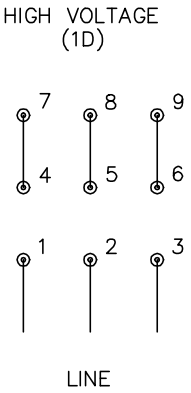



10LYG312
(1030-1062) = 30.70
15.82
4.38
.25
GREASE FITTING W/GREASE TUBE
GREASE & RELIEF
.50 KEY 3.25 LONG
11.16
Ø 10.499
Ø 1.875 1.874
SLINGER
GREASE RELIEF W/GREASE TUBE
.38-16 TAP GRD LOC.
15.23
12.75
7.33
45°
45°
2.70
LEAD HOLE 1.50 NPT
AUTO DRAIN (EA. END)
4 HOLES .50-13 TAP 1.00 DEEP Ø 9.00 B.C.
10.24
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: K
VERSION: 10
REVISED: 10:59:43 11/02/2022
TDR: 000001194199
MODEL NO. 10LYG312
REF: -
BY: USBUFRA
B
BALDOR
VERT TEFC 284-6TC ECP W/DRIP CVR & 311 BRGS
10LYG312

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