BALDOR • RELIANCE

Customer information packet

HBAO4103T

25 AOHP, 1775RPM, 3PH, 60HZ, 286T, 1054M, TEAO
Class - None
Division - Not Applicable

12/22/2025 4:22:24 PM

Specifications

Enclosure	TEAO
Frame	284T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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	CURUSEEV
	NEMA PREMIUM
	WEEE
Ambient Temperature	50 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	62.000 A @ 230.0 V
	64.000 A @ 208.0 V
	31.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	F
Type	AC
Mech. spec.	10T006
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYT006
Eff. date	08-03-2023
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	01-05-2022

High Voltage Full Load Amps	31.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
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	24.63 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
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

NP4312A05M01L

CAT #	HBAO4103T			**SER #**				**CC**		**WGT**	437	**LBS**			
SPEC	10T006Z651G1			**RATING**	50C AMB-CONT										
HZ	**VOLTS**		**AMPS**	**RPM**	**HP**	**SF**	**NEMA NOM EFF**								
60	230/460		62/31		1775	25AO	1.15	93.6							
PH	3	**CL**	H	**CODE**	J	**DES**	A	**ENCL**	TEAO	**IP**	54	**PF**	81	**%**	AIR OVER
DE BRG	6311			**ODE BRG**	6309			**FRAME**	284T						
INV TYPE:	**VPWM**	**SL HZ**	0.83	**CHP**	60	**TO**	90	1.5:1							
WK2	4.13	**LB FT2**		**MAX RPM**	2700	**CT**	6	**TO**	60	10:1					
27.2/13.6				**VT**	3	**TO**	60	20:1							
SFA 69/34.5															

YR:

AC Induction Motor Performance Data
Record # 67460
Typical performance - not guaranteed values

Winding: 10WGZ651-R001	**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

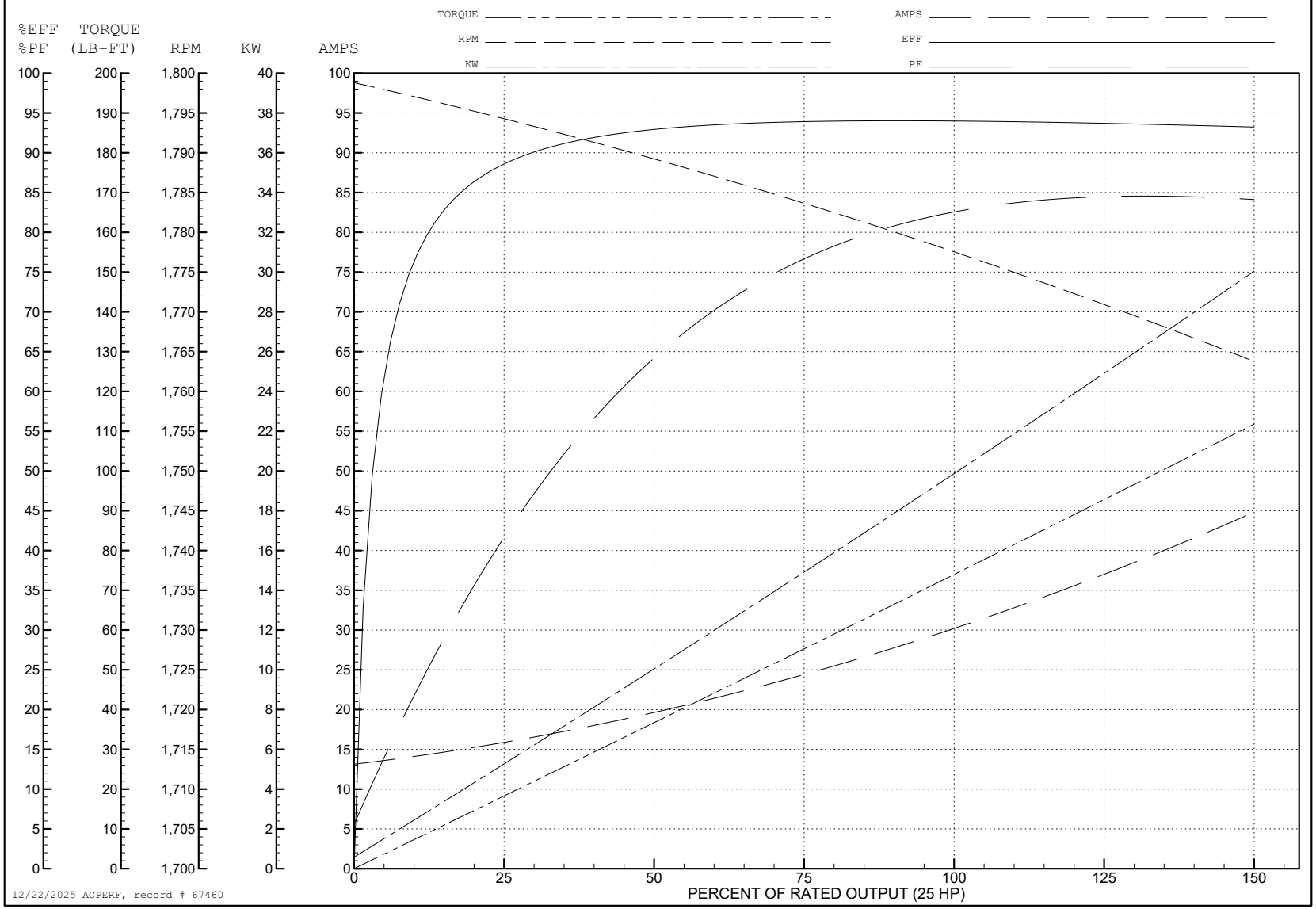
ABB Motors and Mechanical Inc.

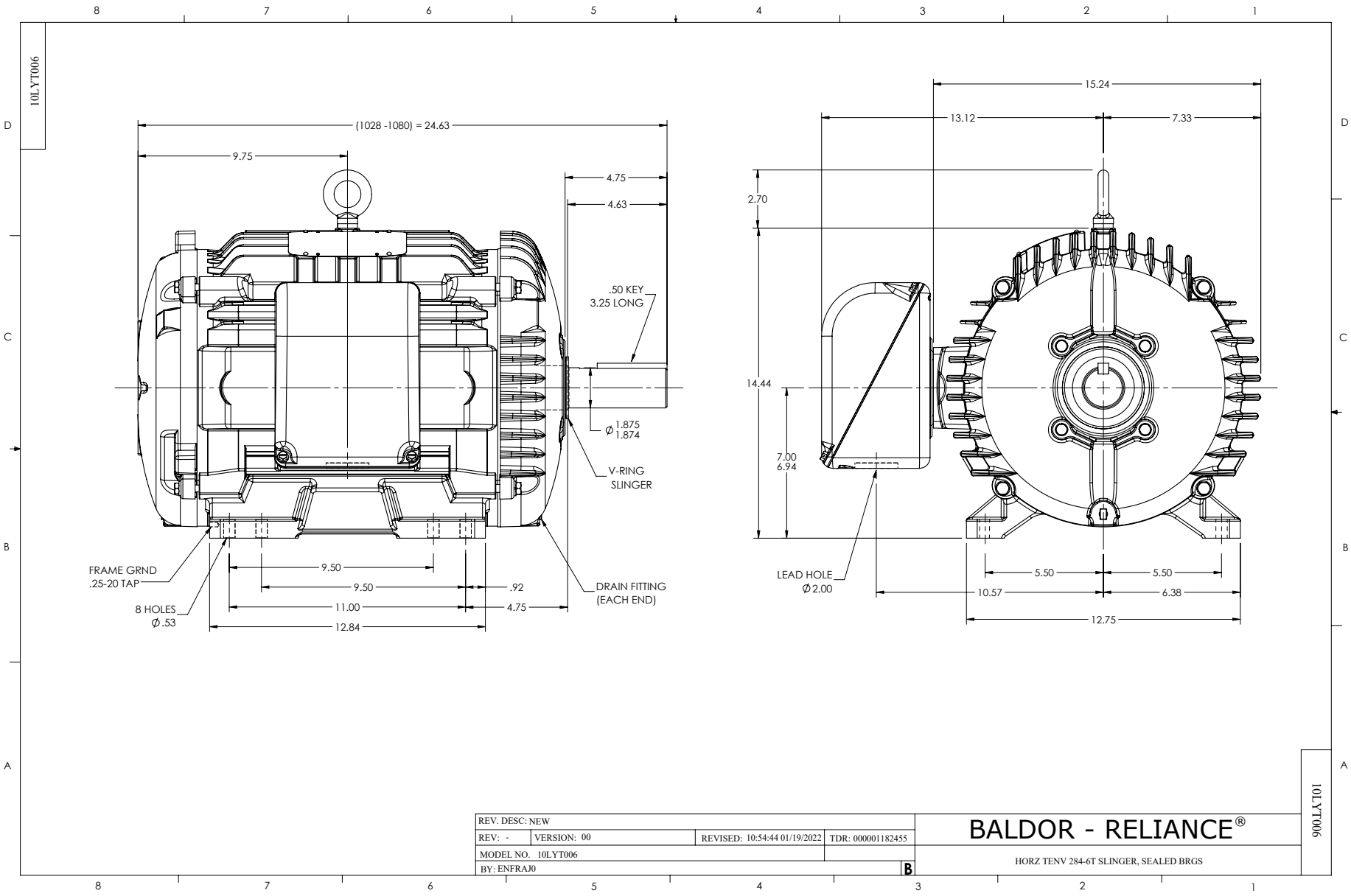
WINDING # 10WGZ651

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

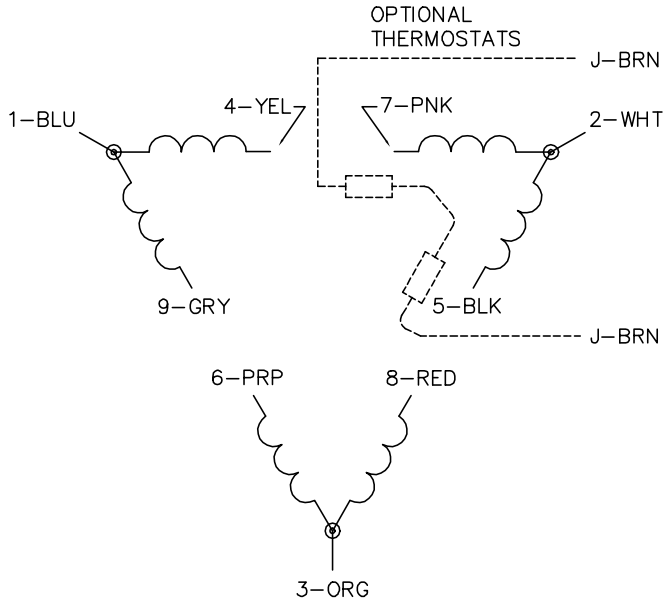
Typical performance - not guaranteed values.

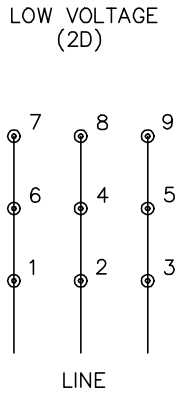
TORQUES(LB-FT): PO=262 PU=118 LR=142 LRA=223

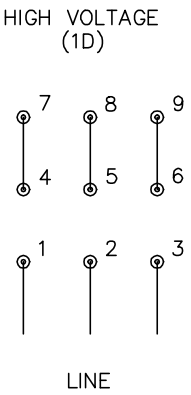



10LYT006
(1028 -1080) = 24.63
9.75
4.75
4.63
.50 KEY
3.25 LONG
Ø 1.875
1.874
V-RING
SLINGER
FRAME GRND
.25-20 TAP
8 HOLES
Ø.53
9.50
9.50
.92
11.00
4.75
12.84
DRAIN FITTING
(EACH END)
15.24
13.12
7.33
2.70
14.44
7.00
6.94
LEAD HOLE
Ø2.00
5.50
5.50
10.57
6.38
12.75
REV. DESC: NEW
REV: -
VERSION: 00
REVISED: 10:54:44 01/19/2022
TDR: 000001182455
MODEL NO. 10LYT006
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ TENV 284-6T SLINGER, SEALED BRGS
10LYT006

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