ABB BALDOR RELIANCE

Customer information packet

IDM4103T

54M 4P TEBC HOR 286T T'STATS INV DUTY
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEBC
Frame	286T
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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	BLOWER
Current @ Voltage	31.000 A @ 460.0 V
	62.000 A @ 230.0 V
	64.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	31.0 a

Part Detail

Revision	E
Type	AC
Mech. spec.	10T004
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYT004
Eff. date	08-18-2025
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	03-19-2019

Insulation Class	H
Inverter Code	Inverter Duty
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	34.48 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1163L									
CAT NO	IDM4103T								
SPEC.	10T004Z651G1								
FRAME	286T			**HP**	25 TE				
VOLTS	230/460								
MAG CUR	27.2/13.6				**FLA**	62/31			
RPM	1775			**RPM MAX**	2700				
HZ	60	**PH**	3		**CLASS**	H			
SER.F.	1.00	**DES**	A			**SL HZ**	0.8		
NEMA-NOM-EFF	93.6		**WK2**	4.13					
BLWR V		**PH**		**HZ**		**A**			
RATING	40C AMB-CONT								
DE BRG	6311			**ODE BRG**	6309				
CC	010A	**SN**							
	1000:1 CT, 1000:1 VT								

ABB BALDOR/460 RELIANCE III CUSTOMER INFORMATION PACKET IDM4103T - 54M 4P TEBC HOR 286T T STATS INV DUTY							
INP AMPS	62/31	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
HP	25 HP	Base Volt	460	R1	0.121	X1	0.578
BASE SPEED	1778	NL AMPS	13.60	R2	0.588	X2	0.512
PHASE/HZ	3/60	Slips(HZ)	0.74	R2B	0.086	X2B	0.790
		WK2 (LB-FT2)	4.310	R2E	0.025	XM	16.600

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1777.8	25.1	74.0	460	60	30.6
Max Speed	2666	25.1	49.4	460	90	27.9
Min Speed	0	0.0	74.0	15.59	0.74	30.6

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1798.9	0.0	0.0	460	60	13.6
1/4	1794.1	6.2	18.2	460	60	15.3
1/2	1789.3	12.6	36.9	460	60	19.3
3/4	1783.5	18.8	55.3	460	60	24.6
Full Load	1777.8	25.1	74.0	460	60	30.6
O/L	1753	50.1	150.0	460	60	59.4

Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty

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A-C MOTOR PERFORMANCE CURVES

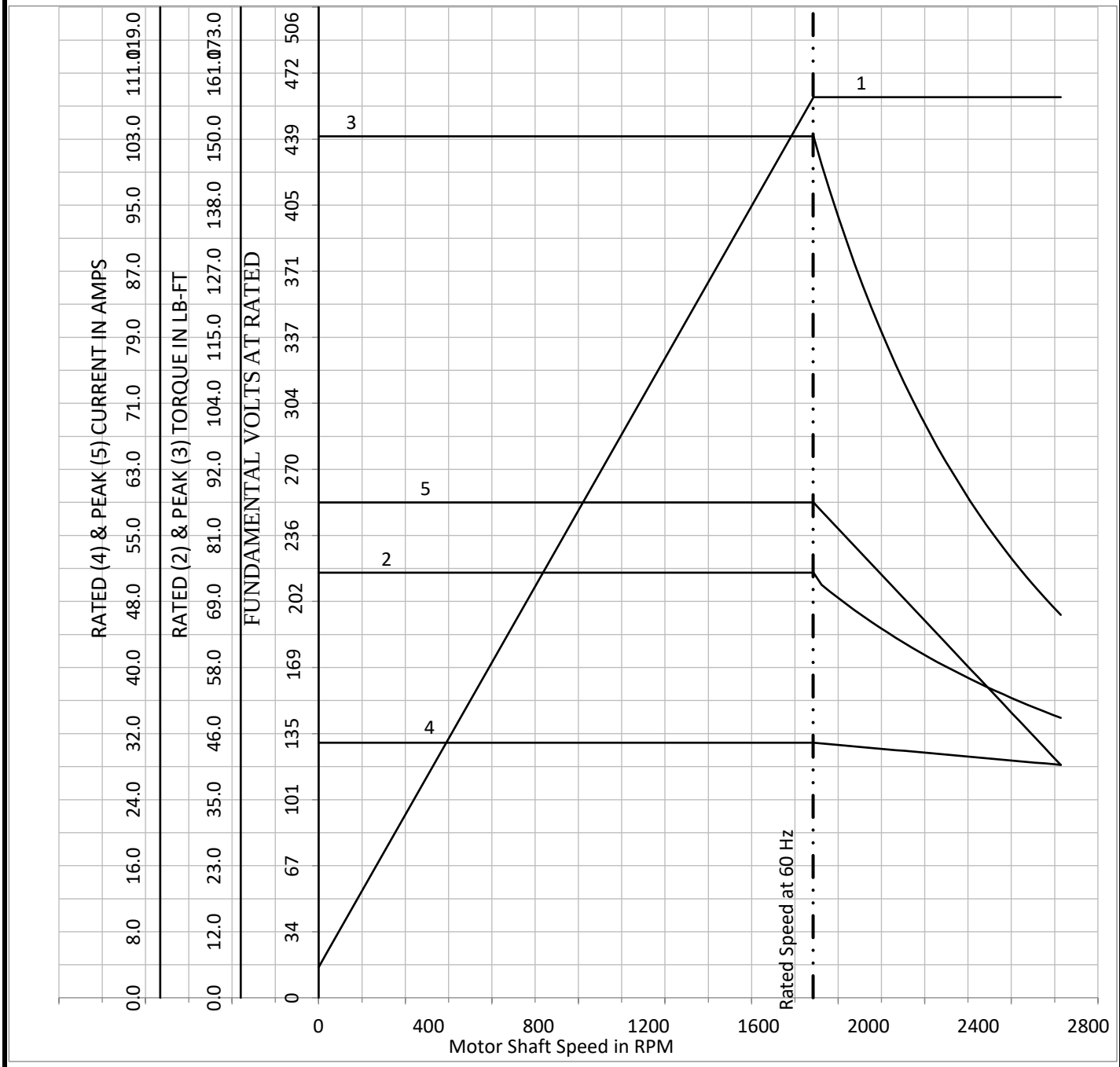
10WGZ651

Record: 67469

INT AMPS	62/31	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
HP	25 HP	Base Volt	460	R1	0.121	X1	0.578
BASE SPEED	1777.80005	NL AMPS	13.60	R2	0.588	X2	0.512
PHASE/HZ	3/60	Slips(HZ)	0.74	R2B	0.086	X2B	0.790
		WK2 (LB-FT2)	4.310	R2E	0.025	XM	16.600

Vector PWM Inverer Duty

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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A-C MOTOR PERFORMANCE CURVES

10WGZ651

Record: 67469

ABB BALDOR RELIANCE II

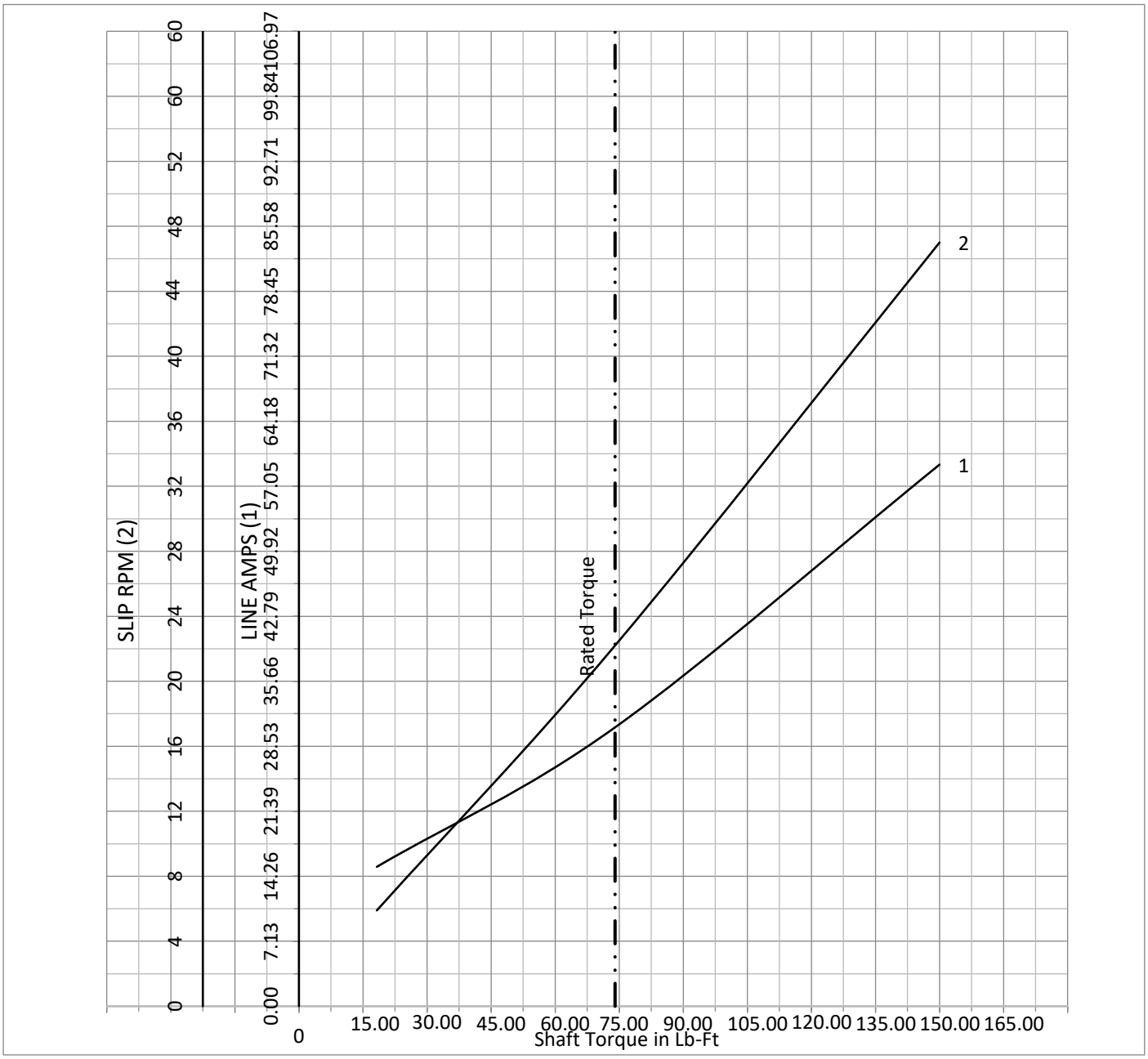
CUSTOMER INFORMATION PACKET

IDM4103T - 54M 4P TEBC HOR 286T T'STATS INV DUTY

VOLTS	208/460	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
INP AMPS	62/31	Base Volt	460	R1	0.121	X1	0.578
HP	25 HP	NL AMPS	13.60	R2	0.588	X2	0.512
BASE SPEED	1777.800049	Slips(HZ)	0.74	R2B	0.086	X2B	0.790
PHASE/HZ	3/60	WK2 (LB-FT2)	4.310	R2E	0.025	XM	16.600

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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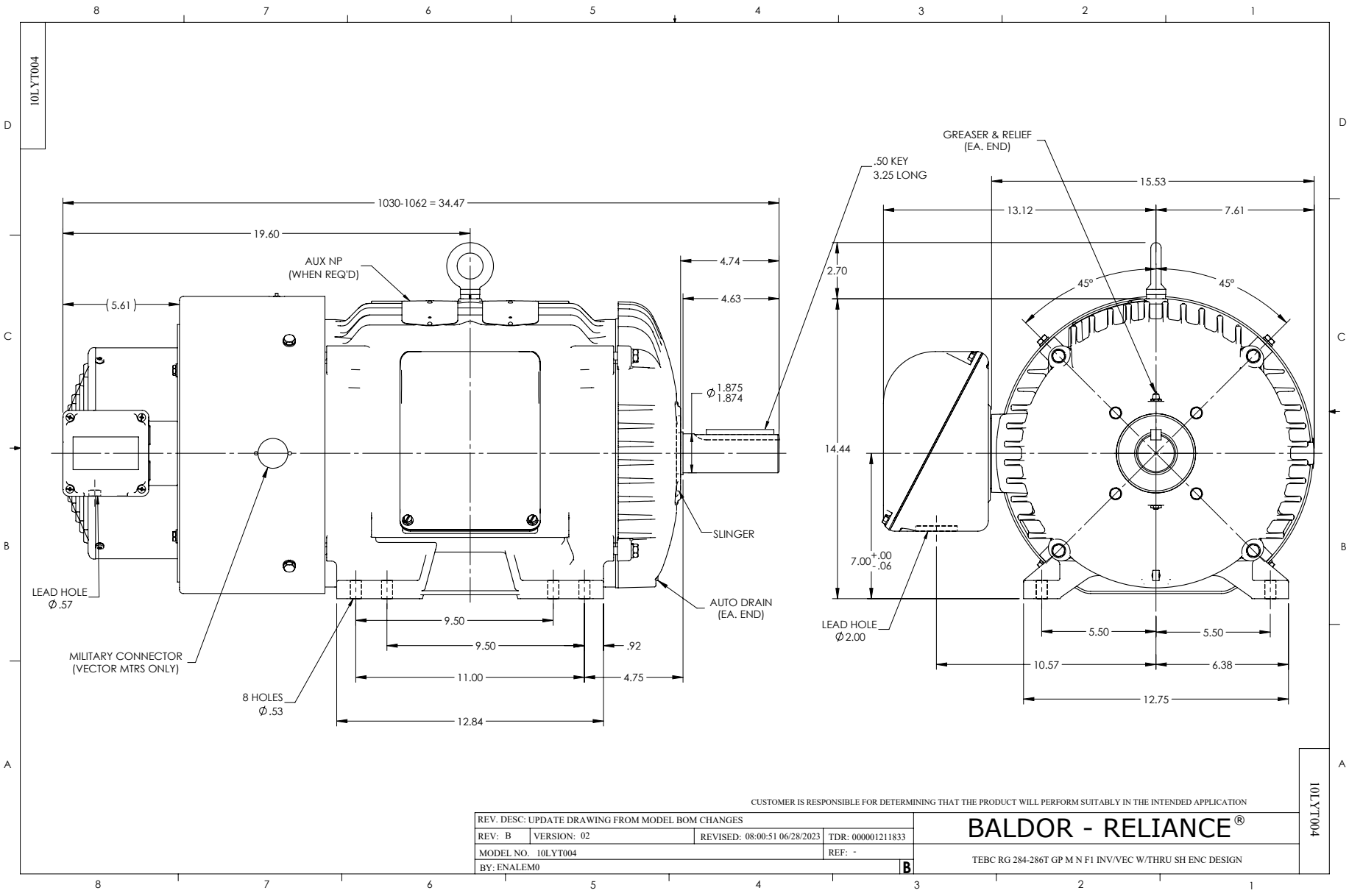
APP BY USBRRAN1

DATE 10/19/2017

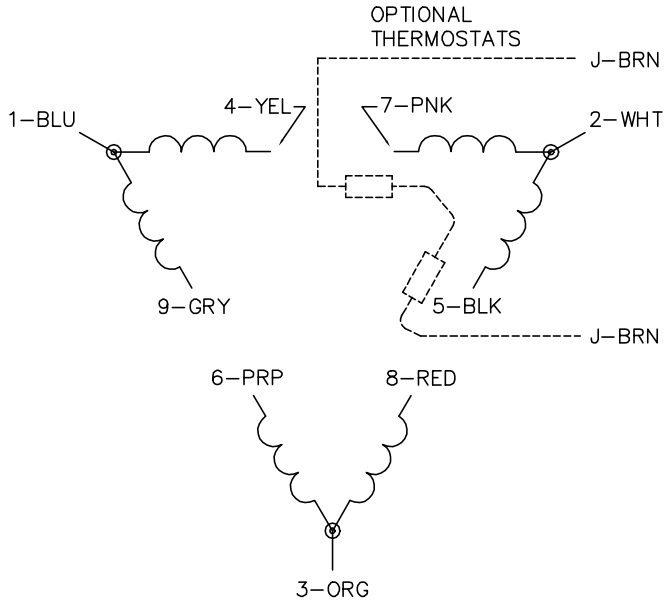
A-C MOTOR PERFORMANCE CURVES

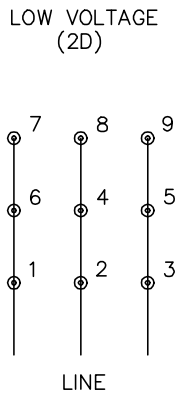
10WGZ651

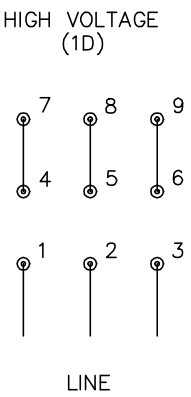
Record: 67469


10LYT004
1030-1062 = 34.47
19.60
AUX NP
(WHEN REQ'D)
(5.61)
4.74
4.63
Ø 1.875
1.874
SLINGER
AUTO DRAIN
(EA. END)
LEAD HOLE
Ø.57
MILITARY CONNECTOR
(VECTOR MTRS ONLY)
8 HOLES
Ø.53
9.50
9.50
.92
11.00
4.75
12.84
GREASER & RELIEF
(EA. END)
.50 KEY
3.25 LONG
15.53
13.12
7.61
2.70
45°
45°
14.44
7.00 +.00 -.06
LEAD HOLE
Ø2.00
5.50
5.50
10.57
6.38
12.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE DRAWING FROM MODEL BOM CHANGES
REV: B
VERSION: 02
REVISED: 08:00:51 06/28/2023
TDR: 000001211833
MODEL NO. 10LYT004
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
TEBC RG 284-286T GP M N F1 INV/VEC W/THRU SH ENC DESIGN
10LYT004

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: –		

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3PH, DV, 9 LEADS, DELTA CONNECTION

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