



Customer information packet

IDM4100T

46M 6P TEBC HOR 284T TSTATS INV DUTY

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	21.000 A @ 460.0 V 42.000 A @ 208.0 V 42.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	21.0 a

Part detail

Revision	G
Type	AC
Mech. spec.	10T004
Base	
Status	PRD/A
Elec. spec.	10WGY561
Layout	10LYT004
Eff. date	08-18-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	03-19-2019

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	34.48 IN
Power Factor	73
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	1175 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	IDM4100T								
SPEC.	10T004Y561G1								
FRAME	284T			HP	15 TE				
VOLTS	230/460								
MAG CUR	22/11				FLA	42/21			
RPM	1175			RPM MAX			1800		
HZ	60		PH	3		CLASS	H		
SER.F.	1.00		DES	A		SL HZ	1.3		
NEMA-NOM-EFF	91.7			WK2	4.9				
BLWR V		PH		HZ		A			
RATING	40C AMB-CONT								
DE BRG	6311		ODE BRG			6309			
CC	010A	SN							
	1000:1 CT, 1000:1 VT								

NP VOLTS	230/460	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)					
NP AMPS	42/21	Base Volt	460	R1	0.265	X1	0.998
HP	15	NL AMPS	12.40	R2	0.163	X2	1.200
BASE SPEED	1185	Slip (HZ)	0.75			XM	19.000
PHASE/HZ	3/60	WK ² (lb-ft ²)	5.630				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1185	15.1	66.7	460	60	21.3
Max Speed	1778	15.0	44.4	460	90	18.0
CT Min Speed	1.185	0.015	66.7	0.46	0.06	21.3

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1199	0.0	0.0	460	60	12.4
1/4	1196	3.8	16.5	460	60	13.2
1/2	1193	7.5	32.8	460	60	15.1
3/4	1189	11.3	49.7	460	60	17.9
Full Load	1185	15.1	66.7	460	60	21.3
O/L	1170	30.1	135.0	460	60	37.6

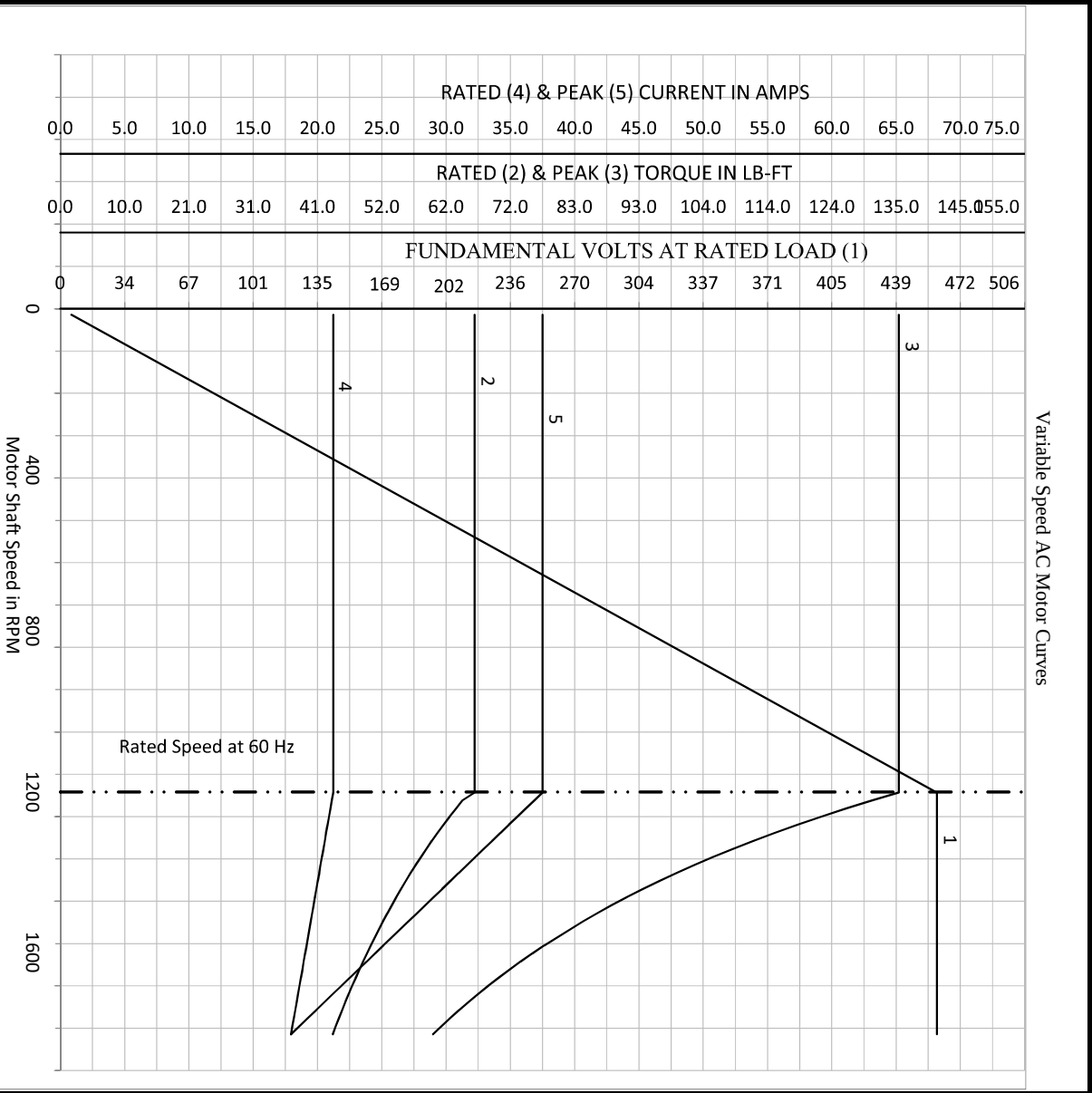
Blower Data	Volts	Ph/Hz	FL Amps	L R Amps	Frame	CFM

Remarks: Calculated Data

DR BY USBRRANI				A-C MOTOR		10WGY561
CK BY CD				PERFORMANCE		
APP BY USBRRANI				CURVES		Record: 68450
DATE 11/1/2024						

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NP VOLTS	230/460	Base Volt	460	WYE CONN EQ. CKT OHMS PER PHASE (BASE RATING, 20C)		
NP AMPS	42/21	NL AMPS	12.40	R1	0.265	X1 0.998
HP	15	Slip (Hz)	0.75	R2	0.163	X2 1.200
BASE SPEED	1185	WK ² (lb-ft ²)	5.630			XM 19.000
PHASE/HZ	3/60					



Calculated Data
Data Valid For Nameplate Speed Range only

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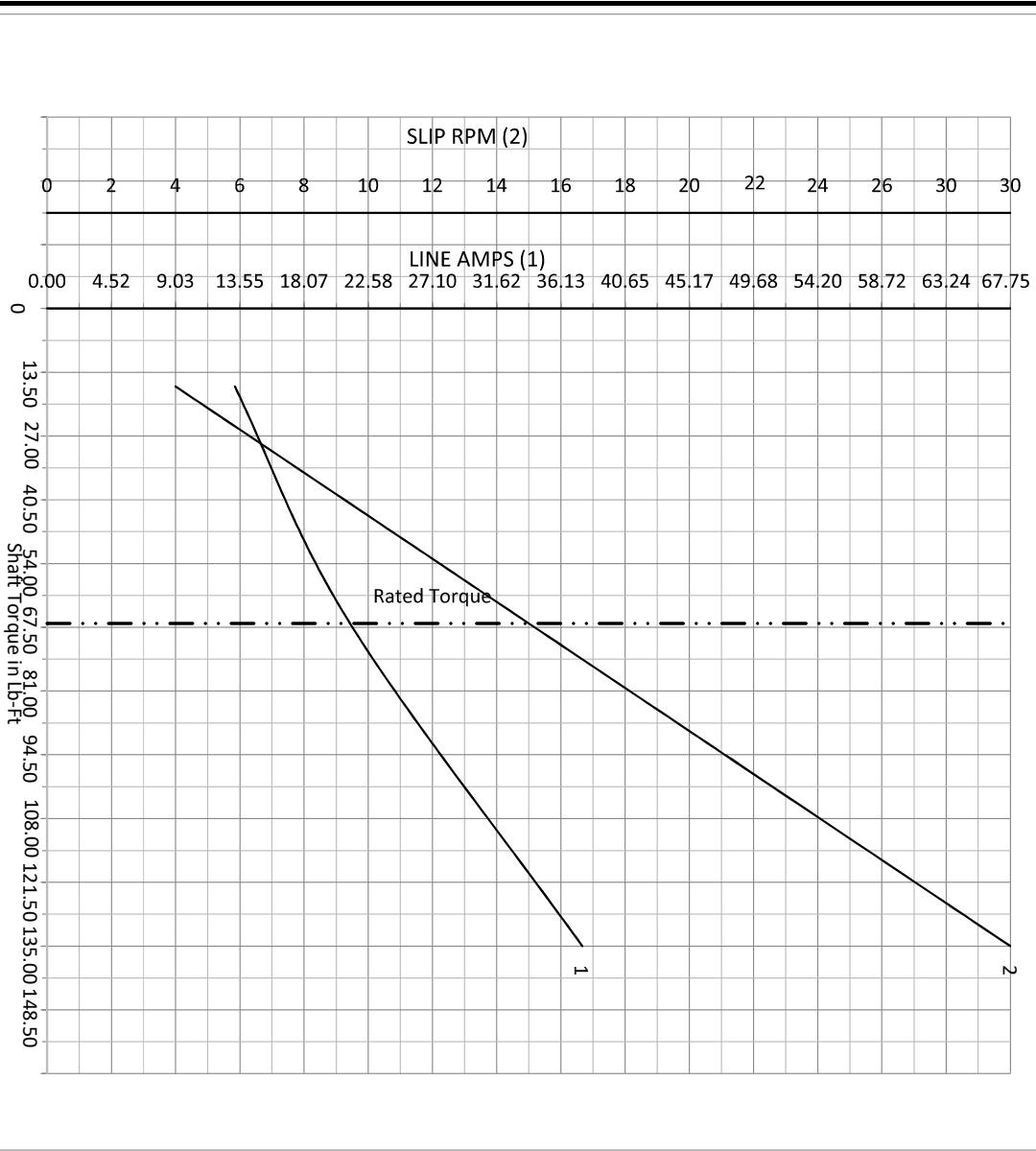
DR BY USBRRANI
CK BY CD
APP BY USBRRANI
DATE 11/1/2024

**A-C MOTOR
PERFORMANCE
CURVES**

10WGY561
Record: 68450

NP VOLTS	230/460	0	0	WYE CONN EQ. CRT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	42/21	Base Volt	460	R1	0.265	X1	0.998
HP	15	NL AMPS	12.40	R2	0.163	X2	1.200
BASE SPEED	1185	Slip (HZ)	0.75	XM			
PHASE/HZ	3/60	WK2 (lb-ft2)	5.630	19.000			

Vector PWM Inverter Duty
Variable Speed AC Motor Curves

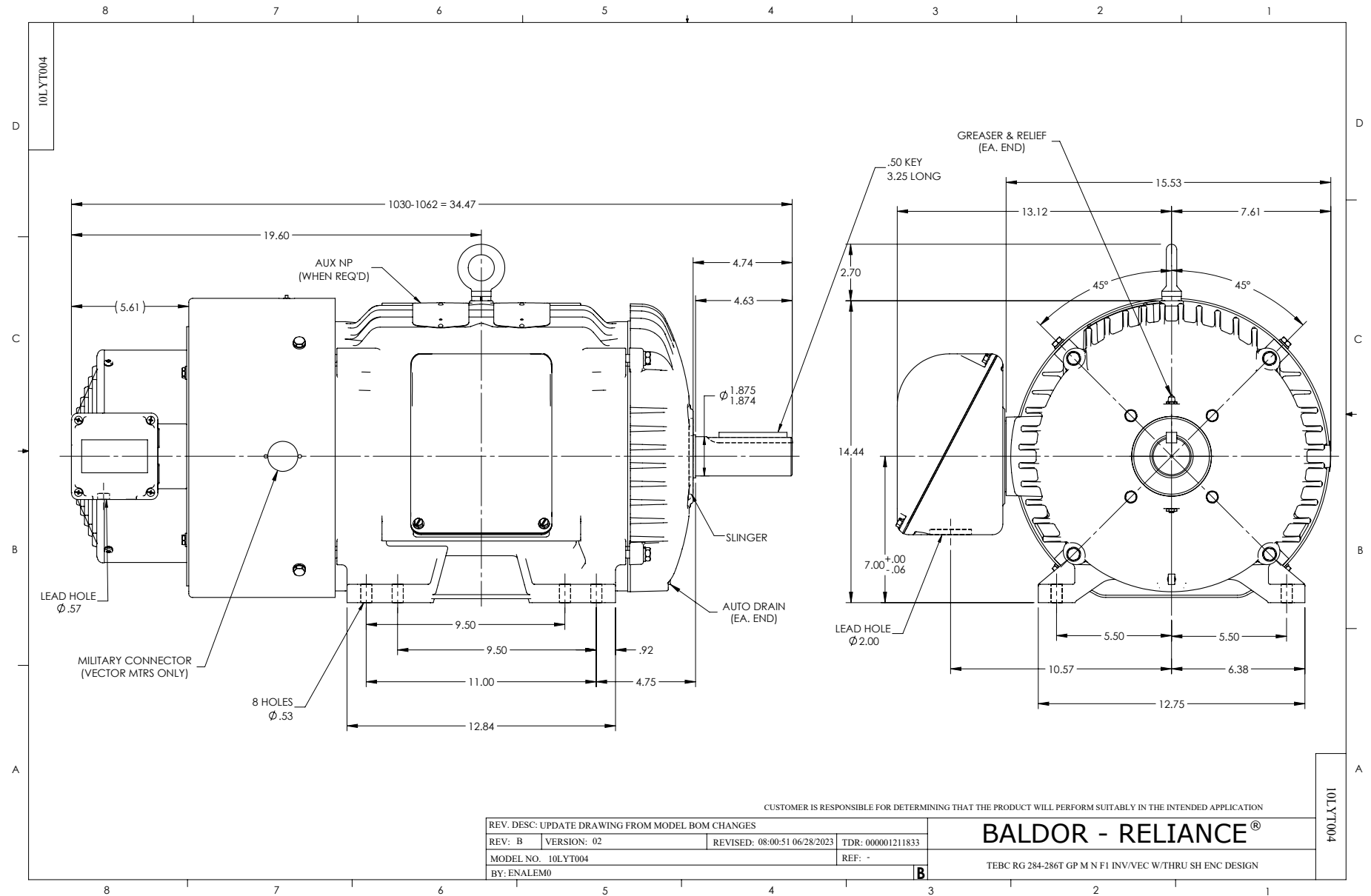


Calculated Data
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DR BY USBRRANI
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A-C MOTOR
PERFORMANCE
CURVES
10WGY561
Record: 68450



CD0180

LOW VOLTAGE
(2D)HIGH VOLTAGE
(1D)

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.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —

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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180