ABB BALDOR RELIANCE

Customer information packet

IDVSM4103T

25HP, 1775RPM, 3PH, 60HZ, 284TC, 1054M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	284TC
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	None
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	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	Standard
Heater Indicator	No Heater

Part Detail

Revision	L
Type	AC
Mech. spec.	10H810
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYH810
Eff. date	08-18-2025
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	12-13-2017

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	30.42 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Extension Location	Double Shaft
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 (OLD)
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None

Nameplate

NP3302L					
CAT NO	IDVSM4103T				
SPEC.	10H810Z651G1				
FRAME	284TC	**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**	F
SER.F.	1.00	**SL HZ**	0.8		
NEMA-NOM-EFF	93.6	**WK2**	4.13		
RATING	40C AMB-CONT				
DE BRG	6311	**ODE BRG**	6309		
CC	010A	**SN**			
	1.5:1 CHP PWM				
	1000:1 CT, 1000:1 VT				

IDVSM4103T - 25HP, 1775RPM, 3PH, 60HZ, 284TC, 1054M, TEFC, F

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 ()	0.000	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

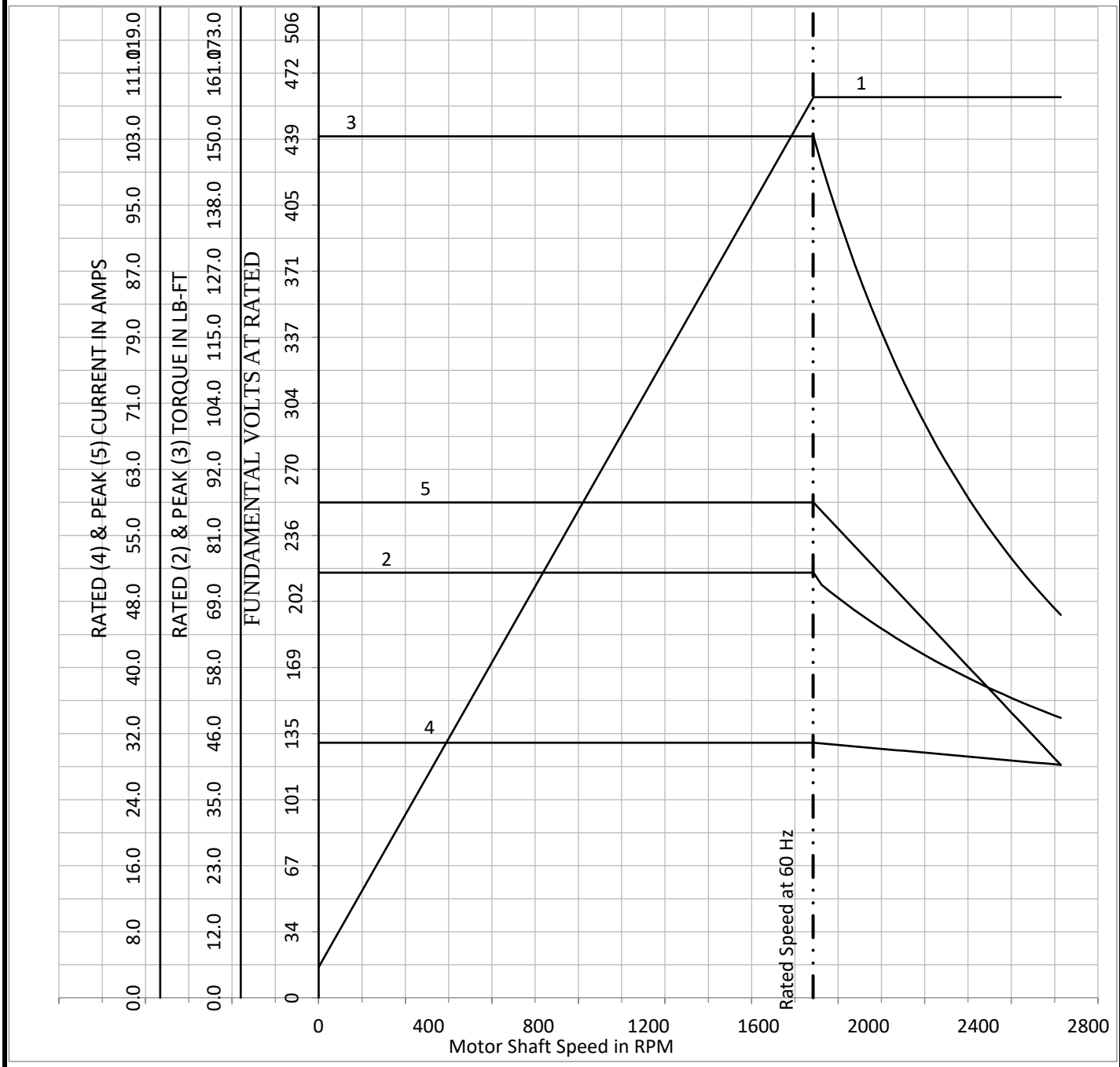
10WGZ651

Record: 68462

INT AMPS	62/31	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
HP	25 HP	Base Volt	460	IDVSM4103T - 25HP, 1775RPM, 3PH, 60HZ, 284TC, 1054M, TEFC, F			
BASE SPEED	1777.80005	NL AMPS	13.60	R1	0.121	X1	0.578
PHASE/HZ	3/60	Slips(HZ)	0.74	R2	0.588	X2	0.512
		WK2 ()	0.000	R2B	0.086	X2B	0.790
				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

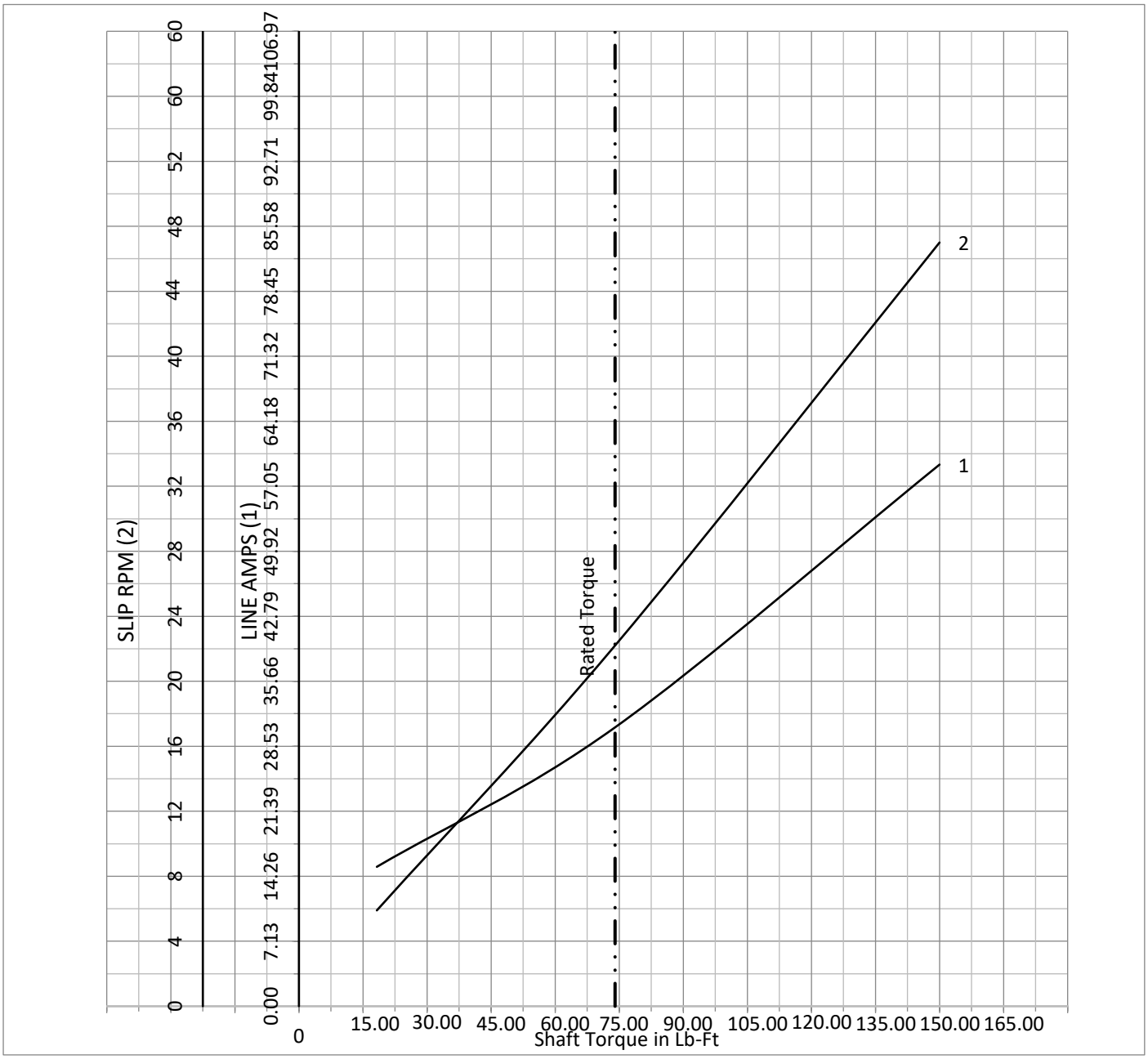
10WGZ651

Record: 68462

VOLTS	208/460	MAX SAFE RPM	2700	IDVSM4103T - 25HP, 1775RPM, 3PH, 60HZ, 284TC, 1054M, TEFC, F			
INP AMPS	62/31	Base Volt	460	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
HP	25 HP	NL AMPS	13.60	R1	0.121	X1	0.578
BASE SPEED	1777.800049	Slips(HZ)	0.74	R2	0.588	X2	0.512
PHASE/HZ	3/60	WK2 ()	0.000	R2B	0.086	X2B	0.790
				R2E	0.025	XM	16.600

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

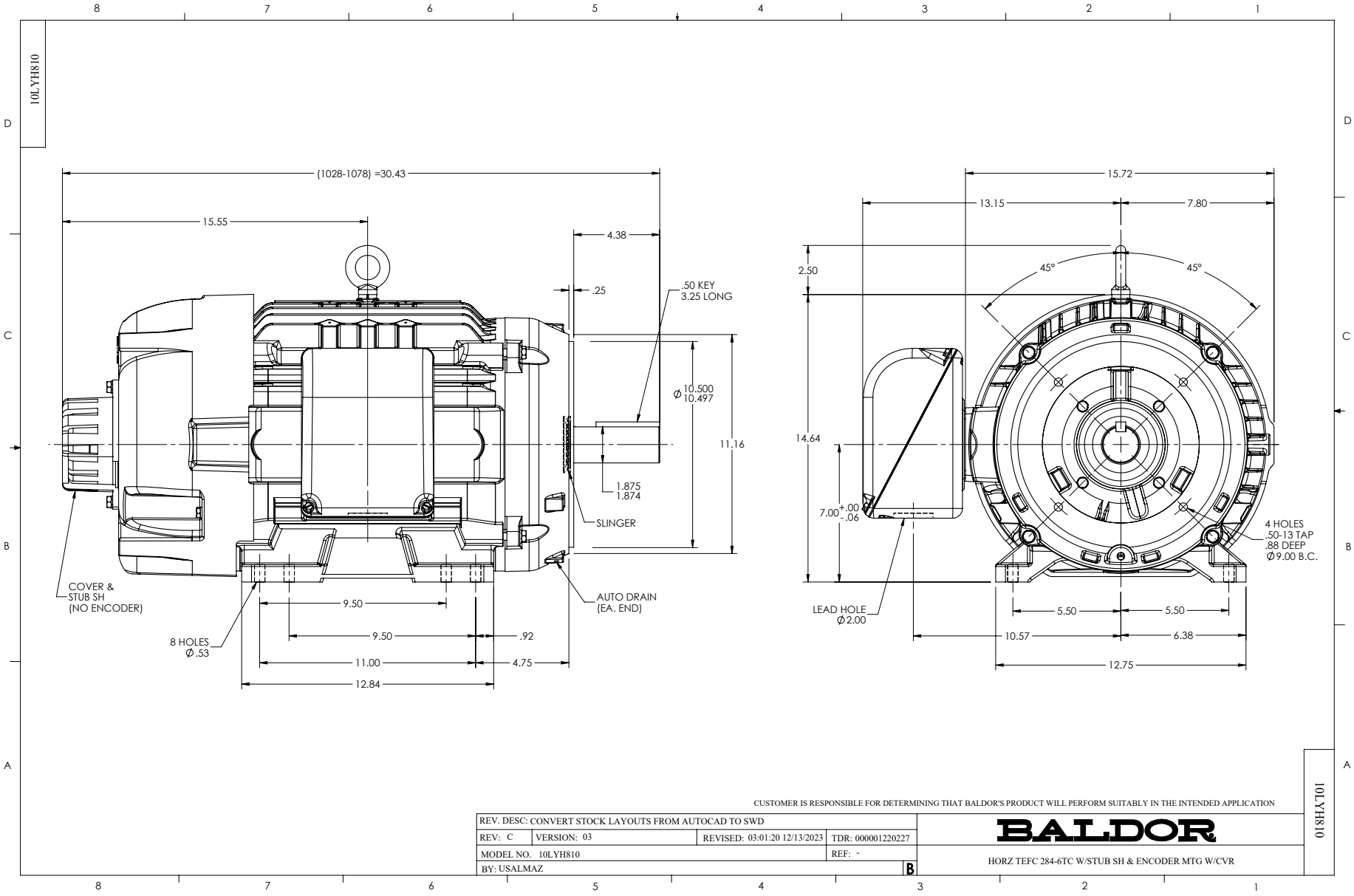
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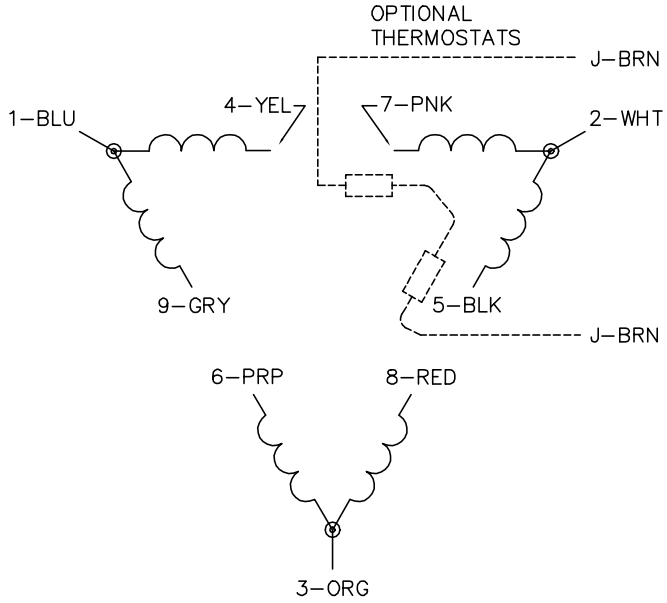
A-C MOTOR PERFORMANCE CURVES

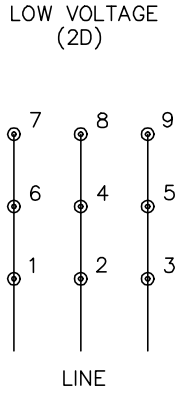
10WGZ651

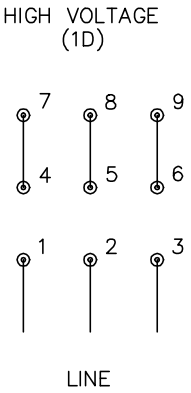
Record: 68462


10LYH810
(1028-1078) =30.43
15.55
4.38
.25
.50 KEY
3.25 LONG
Ø 10.500
10.497
11.16
1.875
1.874
SLINGER
COVER &
STUB SH
(NO ENCODER)
AUTO DRAIN
(EA. END)
9.50
9.50
.92
8 HOLES
Ø .53
11.00
4.75
12.84
15.72
13.15
7.80
2.50
45°
45°
14.64
7.00 +.00 -.06
4 HOLES
.50-13 TAP
.88 DEEP
Ø 9.00 B.C.
LEAD HOLE
Ø 2.00
5.50
5.50
10.57
6.38
12.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: C
VERSION: 03
REVISED: 03:01:20 12/13/2023
TDR: 000001220227
MODEL NO. 10LYH810
REF: -
BY: USALMAZ
B
BALDOR
HORZ TEFC 284-6TC W/STUB SH & ENCODER MTG W/CVR
10LYH810

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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