

BALDOR • RELIANCE

Customer information packet

ZDNM2334T

20HP, 1780RPM, 3PH, 60HZ, 284T, 1056M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
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	20.000 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	UR CSA
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	26.000 A @ 460.0 V 52.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	26.0 a

Part detail

Revision	AG
Type	AC
Mech. spec.	10F679
Base	
Status	PRD/A
Elec. spec.	10WGW586
Layout	10LYF679
Eff. date	06-13-2025
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	01-01-0001

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.36 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	1780 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

NP1168L				
CAT NO	ZDNM2334T			
SPEC.	10F679W586Z1			
FRAME	284T	HP	20 TE	
VOLTS	230/460			
MAG CUR	29/14.5	FLA	52/26	
RPM	1780	RPM MAX	4000	
HZ	60	PH	3	CLASS H
SER.F.	1.00	DES	A	SL HZ 0.67
NEMA-NOM-EFF	93	WK2	4.46	
BLWR V	PH	HZ	A	
RATING	40C AMB-CONT			
DE BRG	6311	ODE BRG	6309	
CC	010A	SER.NO		

NP VOLTS	230/460	MAX SAFE RPM	2700	WVE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	52/26	Base Volt	460	R1	0.131	X1	0.594
HP	20 HP	NL AMPS	14.50	R2	0.644	X2	0.478
BASE SPEED	1784	Slips(HZ)	0.53	R2B	0.094	X2B	0.811
PHASE/HZ	3/60	Wk2 (LB-FT2)	4.440	R2E	0.027	XM	17.600

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1784	20.3	59.8	460	60	26.1
Max Speed	2676	20.3	39.8	460	90	23.5
Min Speed	0	0.0	59.8	13.24	0.53	26.1

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	14.5
1/4	1796	5.1	15.0	460	60	15.6
1/2	1792	10.2	30.0	460	60	18.2
3/4	1788	15.3	44.8	460	60	21.7
Full Load	1784	20.3	59.8	460	60	26.1
O/L	1765	40.7	121.0	460	60	47.5

Blower Data

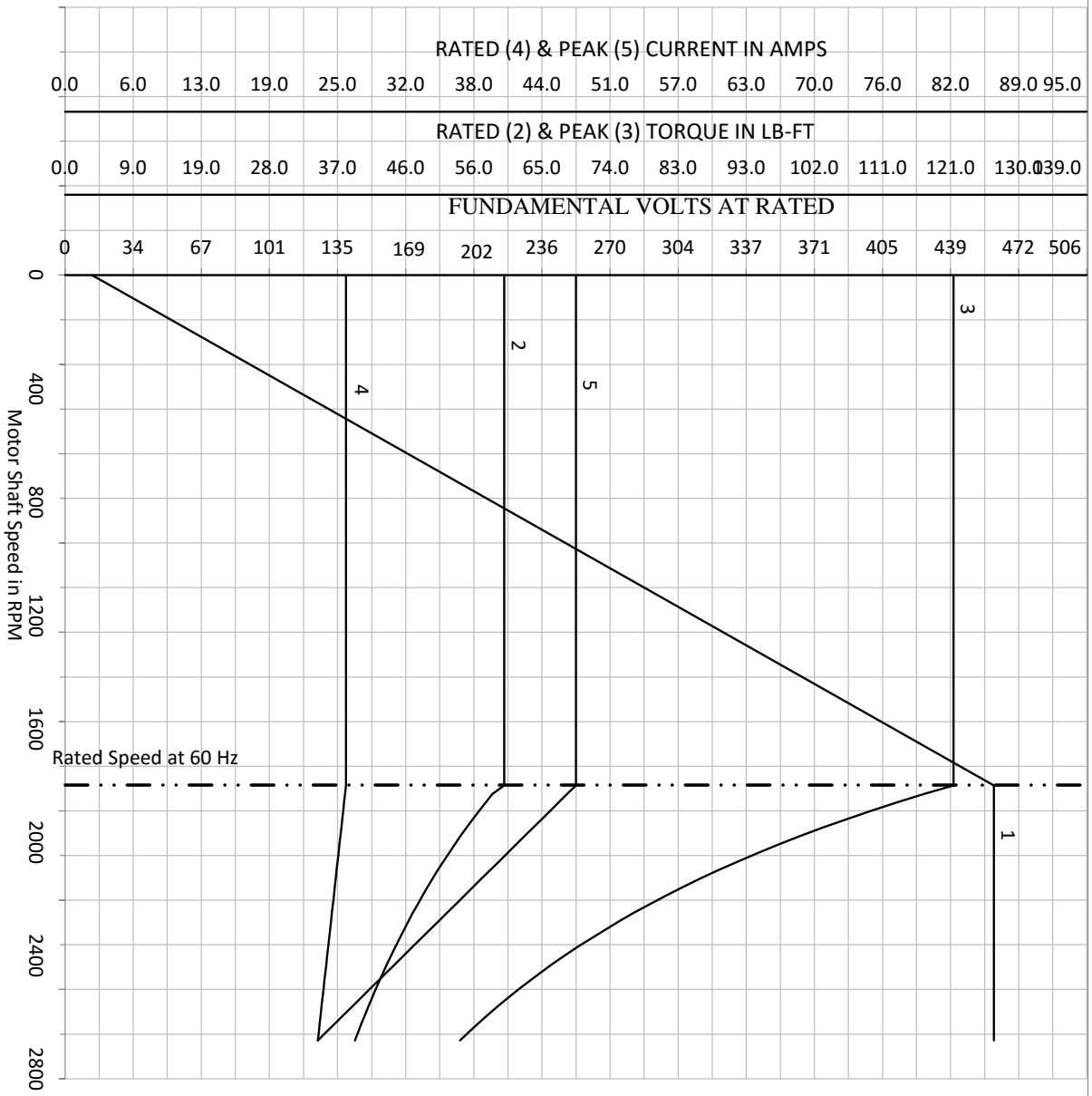
Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty

	DR BY	USBRANI	A-C MOTOR PERFORMANCE CURVES	10WGW586
	CK BY	USBRANI		
A MEMBER OF THE ABB GROUP		APP BY	USBRANI	Record: 2299
		DATE	9/8/2017	

NP VOLTS	230/460	MAX SAFE RPM	2700	WVE CONN EQ. CKT OHMS PER PHASE (BASE RATING, 200)			
NP AMPS	52/26	Base Volt	460	R1	0.131	X1	0.594
HP	20 HP	NL AMPS	14.50	R2	0.644	X2	0.478
BASE SPEED	1784	Slips(Hz)	0.53	R2B	0.094	X2B	0.811
PHASE/HZ	3/60	W/K2 (LB-FT2)	4.440	R2E	0.027	XM	17.600

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data
Data Valid For Nameplate Speed Range only

BALDOR
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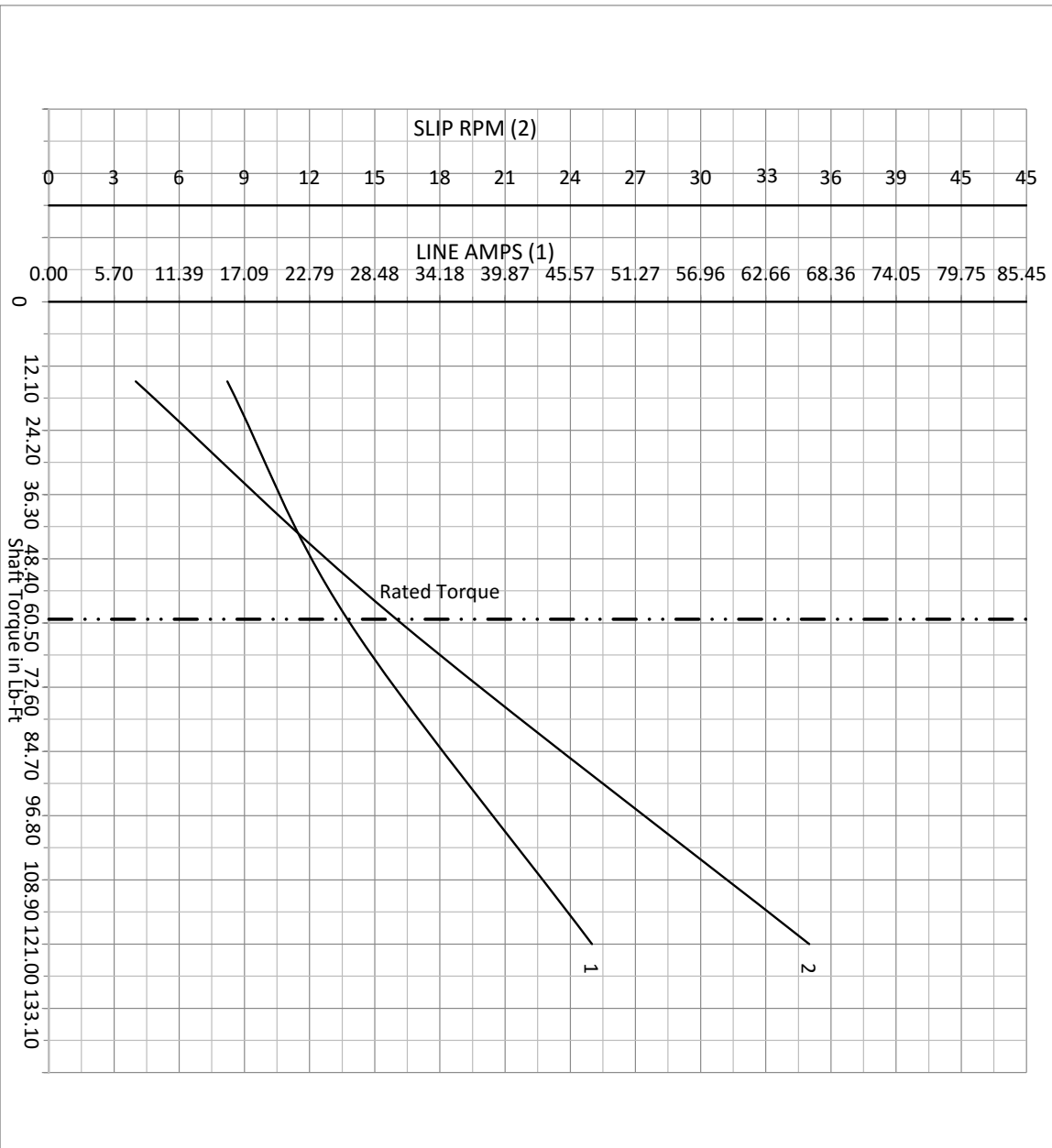
DR BY USBRRANI
CK BY
APP BY USBRRANI
DATE 9/8/2017

A-C MOTOR
PERFORMANCE
CURVES

10WGWS86
Record: 2299

NP VOLTS	230/460	MAX SAFE RPM	2700	WVE CONN EQ CKT OHMS PER PHASE (BASE RATING, 200)			
NP AMPS	52/26	Base Volt	460	R1	0.131	X1	0.594
HP	20 HP	NL AMPS	14.50	R2	0.644	X2	0.478
BASE SPEED	1784	Slips(HZ)	0.53	R2B	0.094	X2B	0.811
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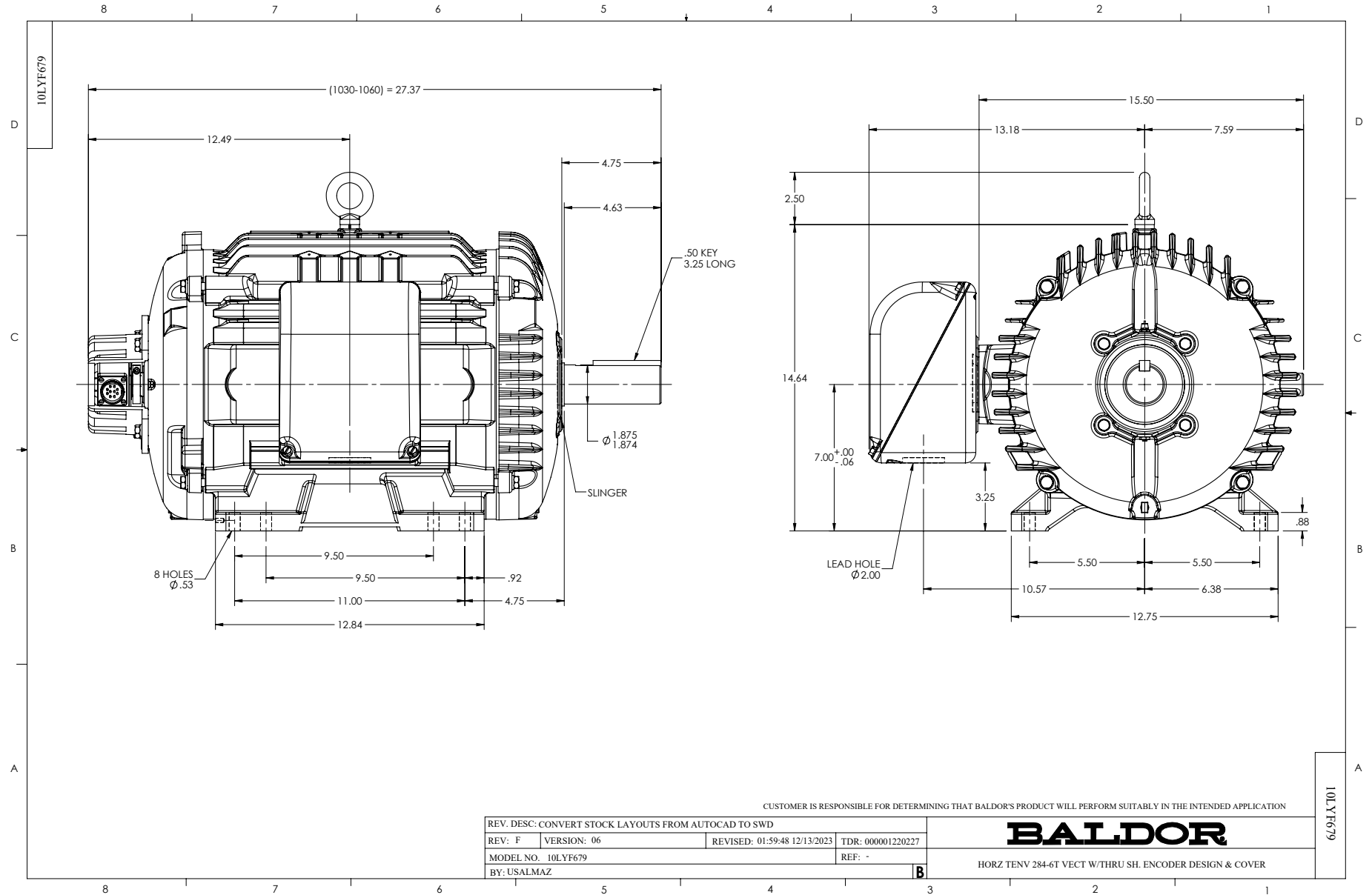
Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

<p>BALDOR A MEMBER OF THE ABB GROUP</p>	DR BY	USBRRANI	<p>A-C MOTOR PERFORMANCE CURVES</p>	<p>10WGWS86</p>
	CK BY	USBRRANI		
	APP BY	USBRRANI		
	DATE	9/8/2017		Record: 2299



CD0005

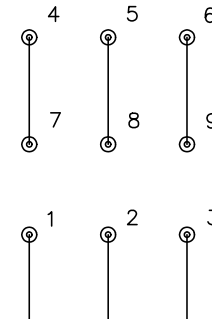


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS