ABB BALDOR RELIANCE

Customer information packet

IDVSNM2333T-5

15HP, 1770RPM, 3PH, 60HZ, 256TC, 0948M, TENV, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	256TC
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	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	14.800 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	14.8 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K

Part Detail

Revision	E
Type	AC
Mech. spec.	09F278
Base	
Status	PRD/A
Elec. spec.	09WGT565
Layout	09LYF278
Eff. date	08-28-2025
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	11-10-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0948M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.11 IN
Power Factor	80
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP3302L					
CAT NO	IDVSNM2333T-5				
SPEC.	09F278T565G1				
FRAME	256TC	**HP**	15 TE		
VOLTS	575				
MAG CUR	6.9			**FLA**	14.8
RPM	1770	**RPM MAX**	2700		
HZ	60	**PH**	3	**CLASS**	F
SER.F.	1.00			**SL HZ**	1
NEMA-NOM-EFF	92.4	**WK2**	2.1		
RATING	40C AMB-CONT				
DE BRG	6309	**ODE BRG**	6208		
CC	010A	**SN**			
	1.5:1 CHP PWM				
	1000:1 CT, 1000:1 VT				

INP AMPS	14.8	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
HP	15 HP	Base Volt	575	R1	0.376	X1	1.440
BASE SPEED	1771	NL AMPS	6.89	R2	0.307	X2	1.730
PHASE/HZ	3/60	Slips(HZ)	0.97			XM	41.900
		WK2 (lb-ft²)	2.100				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1771	15.0	44.5	575	60	14.8
Max Speed	2656	15.0	29.7	575	90	13.4
Min Speed	0	0.0	44.5	24.11	0.97	14.8

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	575	60	6.9
1/4	1794	3.8	11.1	575	60	7.7
1/2	1787	7.6	22.4	575	60	9.5
3/4	1779	11.4	33.7	575	60	12.0
Full Load	1771	15.0	44.5	575	60	14.8
O/L	1745	30.0	90.3	575	60	27.5

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

Remarks: Calculated Data
Vector PWM Inverter Duty

BALDOR • RELIANCE

DR BY USWEQUA1
CK BY
APP BY USWEQUA1
DATE 11/19/2020

A-C MOTOR PERFORMANCE CURVES

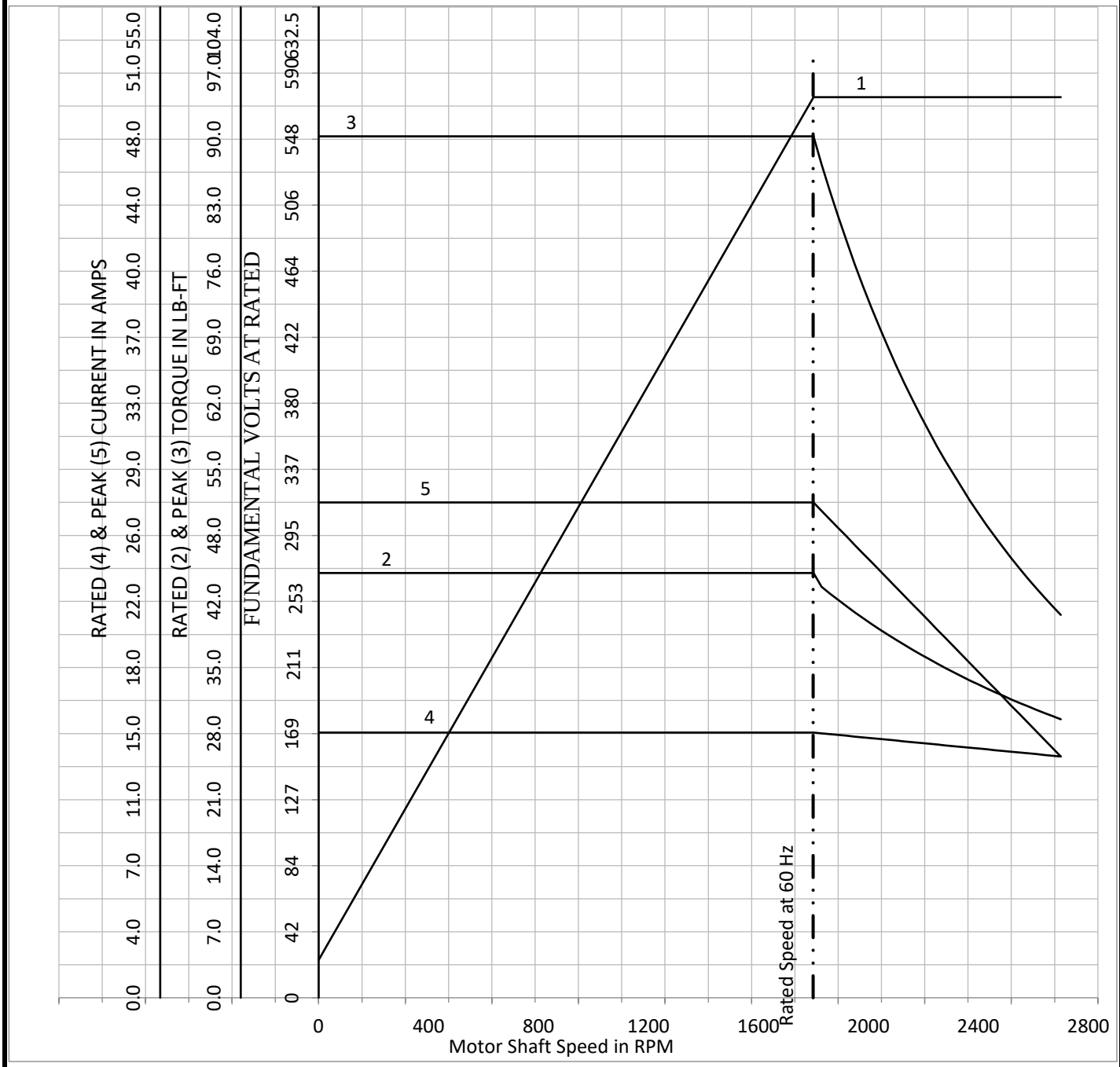
09WGT565

Record: 69739

ABB BALDOR RELIANCE	CUSTOMER INFORMATION PACKET	MAX SAFE RPM 2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
INT AMPS 14.8		IDVSNM2333T-5 - 15HP, 1770RPM, 3PH, 60HZ, 256TC, 0948M, TENV, F	
HP 15 HP		Base Volt 575	R1 0.376 X1 1.440
BASE SPEED 1771		NL AMPS 6.89	R2 0.307 X2 1.730
PHASE/HZ 3/60		Slips(HZ) 0.97	XM 41.900
		WK2 (lb-ft²) 2.100	

Vector PWM Inverter Duty

Variable Speed AC Motor Curves



Calculated Data

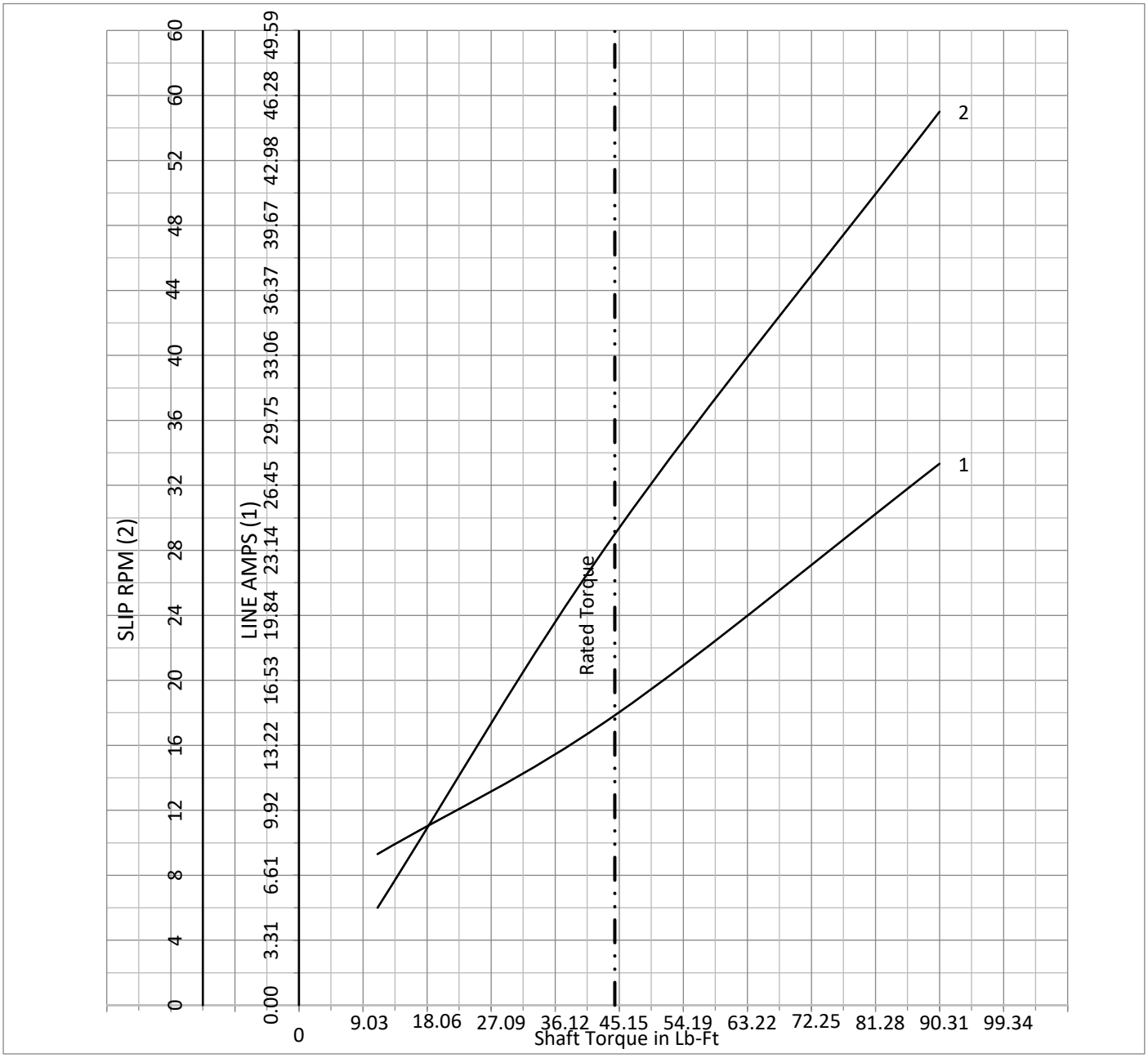
Data Valid For Nameplate Speed Range only

BALDOR • RELIANCE	DR BY USWEQUA1 CK BY APP BY USWEQUA1 DATE 11/19/2020	A-C MOTOR PERFORMANCE CURVES	09WGT565 Record: 69739

ABB BALDOR RELIANCE	CUSTOMER INFORMATION PACKET	MAX SAFE RPM 2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
		IDVSNM2333T-5 - 15HP, 1770RPM, 3PH, 60HZ, 256TC, 0948M, TENV, F	
INT AMPS 14.8		Base Volt 575	R1 0.376 X1 1.440
HP 15 HP		NL AMPS 6.89	R2 0.307 X2 1.730
BASE SPEED 1771		Slips(HZ) 0.97	XM 41.900
PHASE/HZ 3/60		WK2 (lb-ft²) 2.100	

Vector PWM Inverer Duty

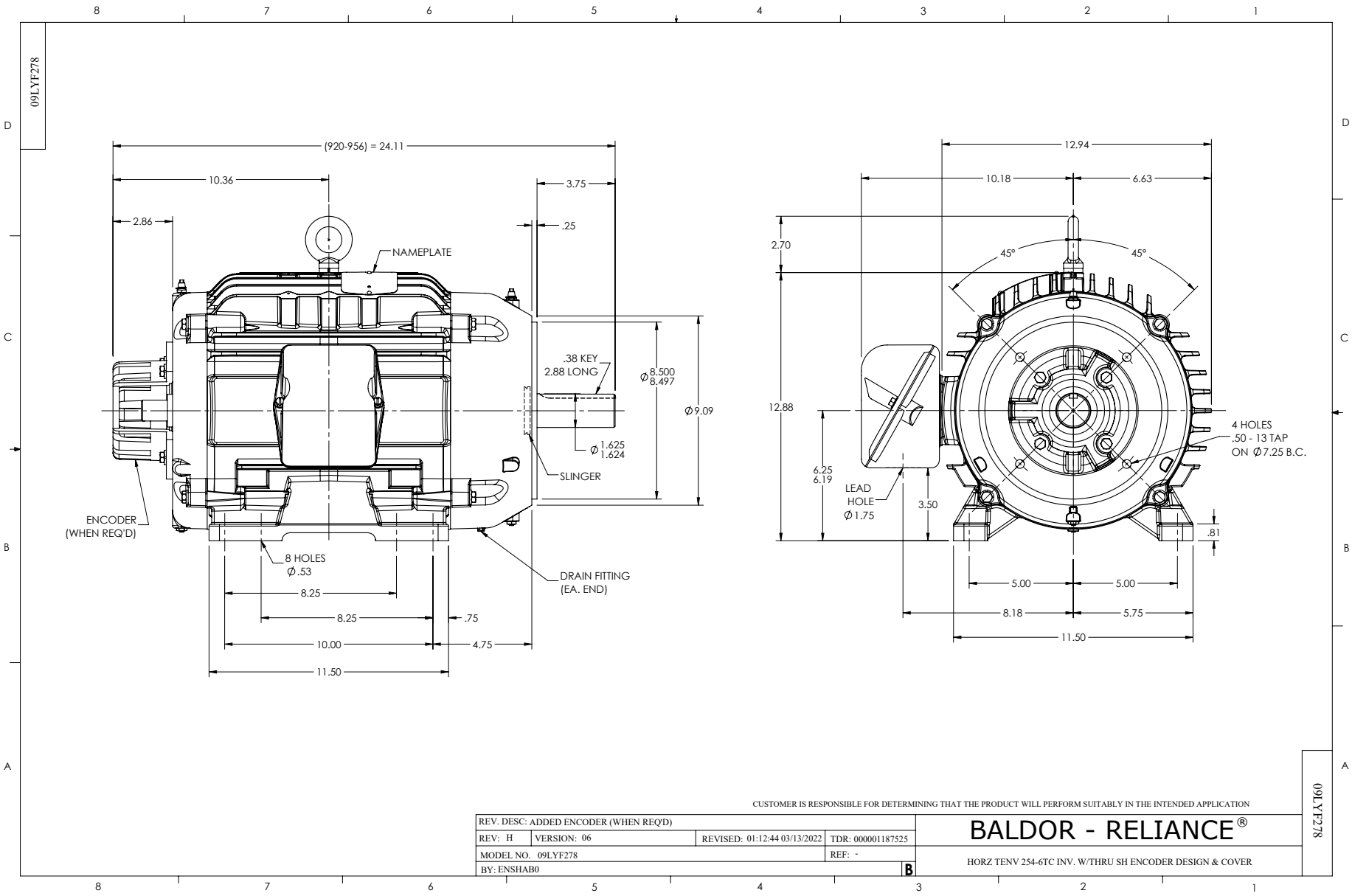
Vaiable Speed AC Motor Curves



Calculated Data

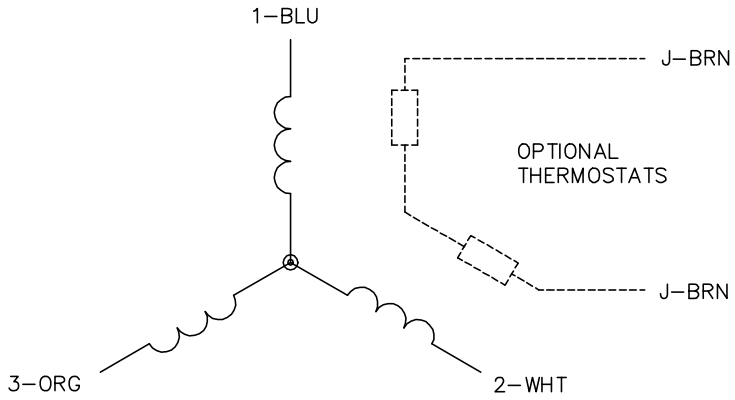
Data Valid For Nameplate Speed Range only

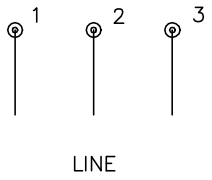
BALDOR • RELIANCE	DR BY USWEQUA1 CK BY APP BY USWEQUA1 DATE 11/19/2020	A-C MOTOR PERFORMANCE CURVES
		09WGT565 Record: 69739


09LYF278
(920-956) = 24.11
10.36
3.75
2.86
.25
NAMEPLATE
.38 KEY
2.88 LONG
Ø8.500
8.497
Ø9.09
Ø1.625
1.624
SLINGER
ENCODER
(WHEN REQ'D)
8 HOLES
Ø.53
DRAIN FITTING
(EA. END)
8.25
8.25
.75
10.00
4.75
11.50
12.94
10.18
6.63
2.70
45°
45°
12.88
4 HOLES
.50 - 13 TAP
ON Ø7.25 B.C.
6.25
6.19
LEAD
HOLE
Ø1.75
3.50
.81
5.00
5.00
8.18
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADDED ENCODER (WHEN REQ'D)
REV: H
VERSION: 06
REVISED: 01:12:44 03/13/2022
TDR: 000001187525
MODEL NO. 09LYF278
REF: -
BY: ENSHAB0
B
BALDOR - RELIANCE®
HORZ TENV 254-6TC INV. W/THRU SH ENCODER DESIGN & COVER
09LYF278

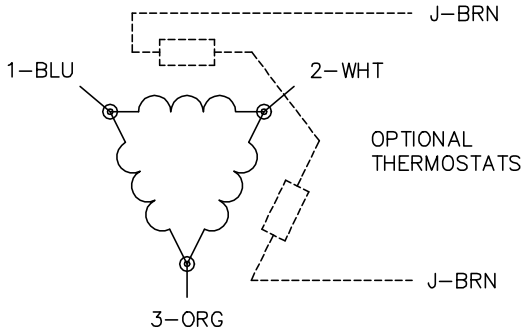
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1