ABB BALDOR RELIANCE

Customer information packet

IDNM2237T

7.5HP, 1765RPM, 3PH, 60HZ, 254TC, 0932M, TENV
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/17/2026 12:07:33 AM

Specifications

Enclosure	TENV
Frame	254TC
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	7.500 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	18.200 A @ 230.0 V
	9.100 A @ 460.0 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 Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.1 a

Part Detail

Revision	N
Type	AC
Mech. spec.	09F278
Base	
Status	PRD/A
Elec. spec.	09WGT341
Layout	09LYF278
Eff. date	08-28-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	06-03-2016

Insulation Class	H
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0932M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.05 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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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	IDNM2237T								
SPEC.	09F278T341G1								
FRAME	254TC			**HP**	7.5 TE				
VOLTS	230/460								
MAG CUR	7.8/3.9					**FLA**	18.2/9.1		
RPM	1765			**RPM MAX**	5000				
HZ	60	**PH**	3			**CLASS**	H		
SER.F.	1.00	**DES**	A			**SL HZ**	1.2		
NEMA-NOM-EFF	91.7			**WK2**	1.4				
BLWR V		**PH**		**HZ**		**A**			
RATING	40C AMB-CONT								
DE BRG	6309			**ODE BRG**	6208				
CC	010A	**SN**							
	1000:1 CT, 1000:1 VT								

NP VOLTS	230/460	MAX SAFE RPM	5000	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	18.2/9.1	Base Volt	460	R1	0.654	X1	2.120
HP	7.5HP	NL AMPS	4.0	R2	0.441	X2	2.250
BASE SPEED	1765	Slips (Hz)	1.07			XM	62.100
PHASE/HZ	3/60	WK^2 (lb-ft^2)	1.4				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1768	7.4	22.1	460	60	9.1
Max Speed	2652	7.5	14.8	460	90	8.7
Min Speed	0	0.0	22.1	27.07	1.07	9.1

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	4.0
1/4	1792	1.8	5.3	460	60	4.5
1/2	1785	3.7	11.0	460	60	5.7
3/4	1777	5.6	16.6	460	60	7.4
Full Load	1768	7.4	22.1	460	60	9.1
O/L	1737	14.9	45.0	460	60	17.7

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

Remarks: Calculated Data
Vector PWM Inverter Duty

BALDOR
A MEMBER OF THE ABB GROUP

DR BY	BR
CK BY	
APP BY	BR
DATE	3/28/2017

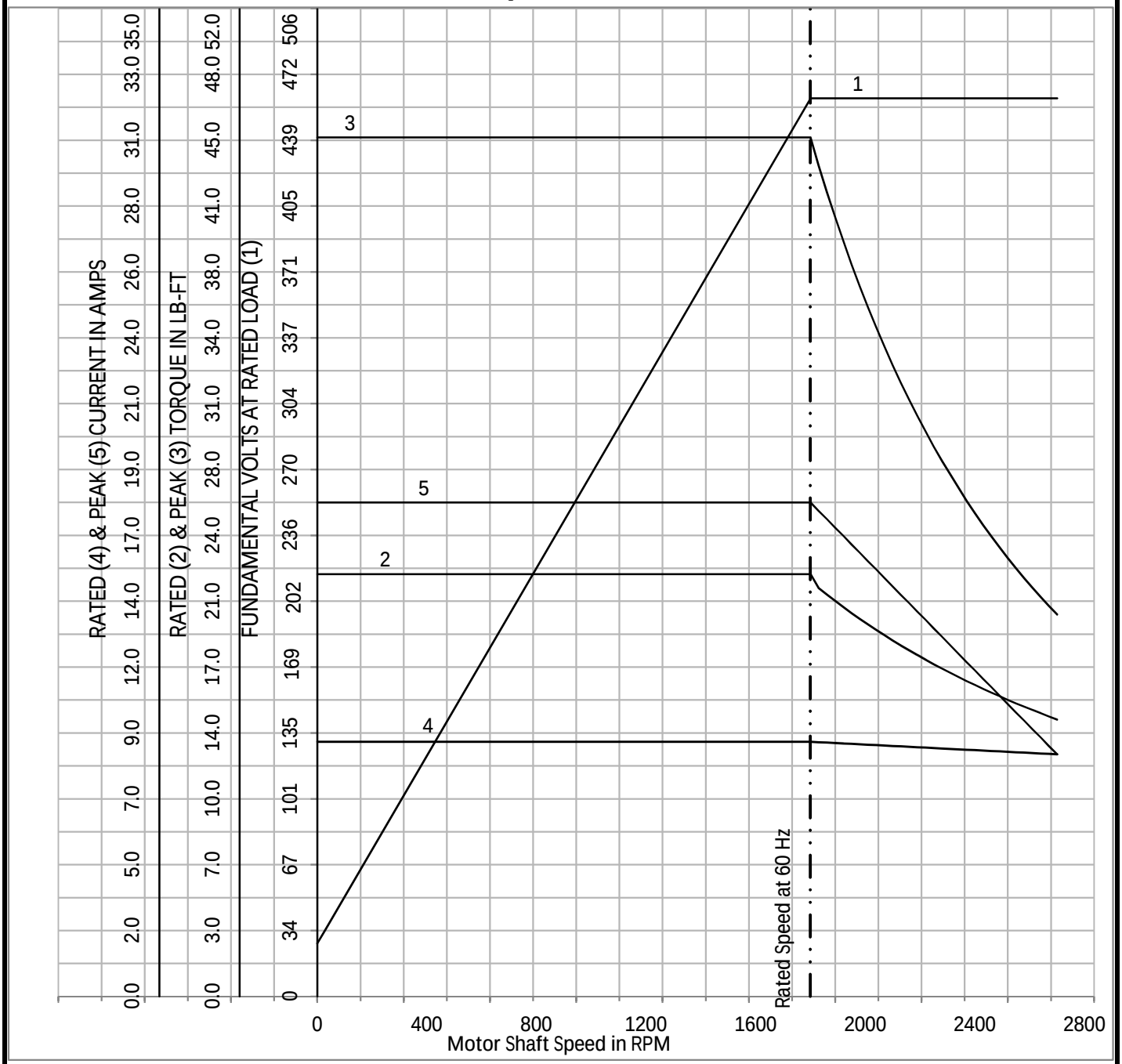
A-C MOTOR PERFORMANCE CURVES

09WGT341

NP VOLTS	230/460	MAX SAFE RPM	5000	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	18.2/9.1	Base Volt	460	R1	0.654	X1	2.120
HP	7.5HP	NL AMPS	3.97	R2	0.441	X2	2.250
BASE SPEED	1765	Slips (Hz)	1.07			XM	62.100
PHASE/HZ	3/60	WK2 (lb-ft2)	1.4				

Vector PWM Inverer Duty

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

BALDOR
A MEMBER OF THE ABB GROUP

DR BY	BR
CK BY	
APP BY	BR
DATE	3/28/2017

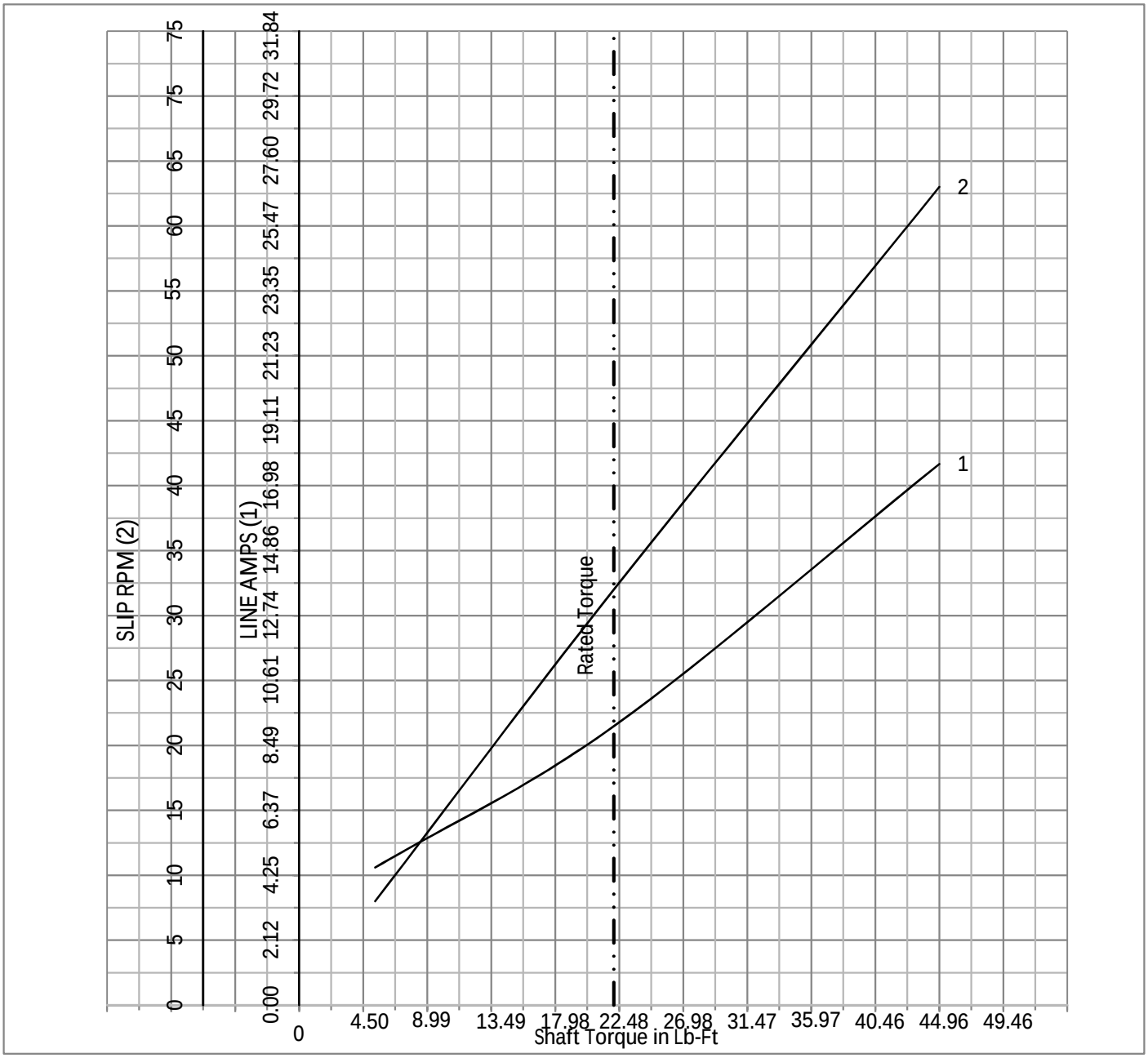
A-C MOTOR PERFORMANCE CURVES

09WGT341

NP VOLTS	230/460	MAX SAFE RPM	5000	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	18.2/9.1	Base Volt	460	R1	0.654	X1	2.120
HP	7.5HP	NL AMPS	3.97	R2	0.441	X2	2.250
BASE SPEED	1765	Slips (Hz)	1.07			XM	62.100
PHASE/HZ	3/60	WK2 (lb-ft2)	1.4				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

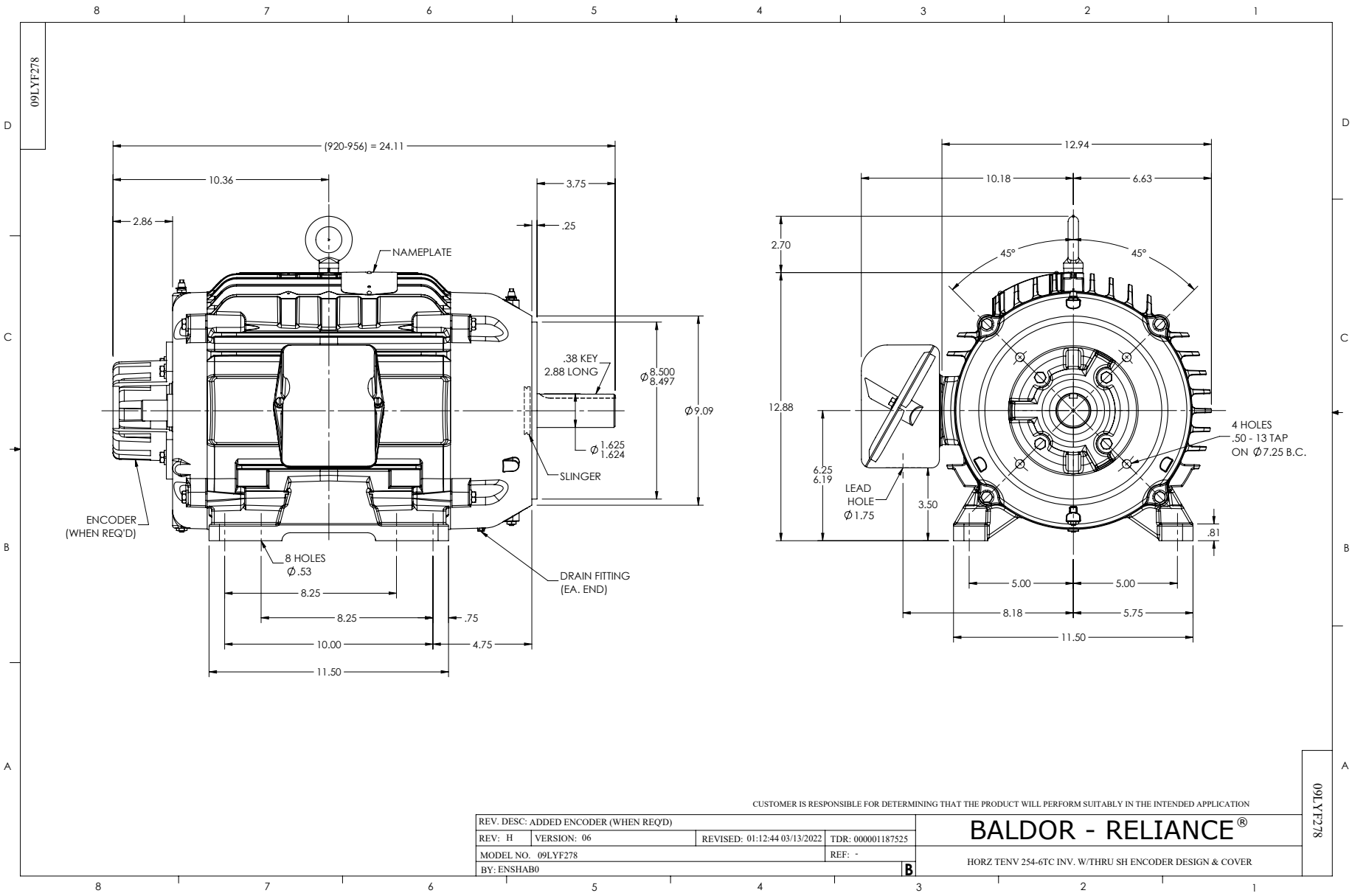
Data Valid For Nameplate Speed Range only

BALDOR
A MEMBER OF THE ABB GROUP

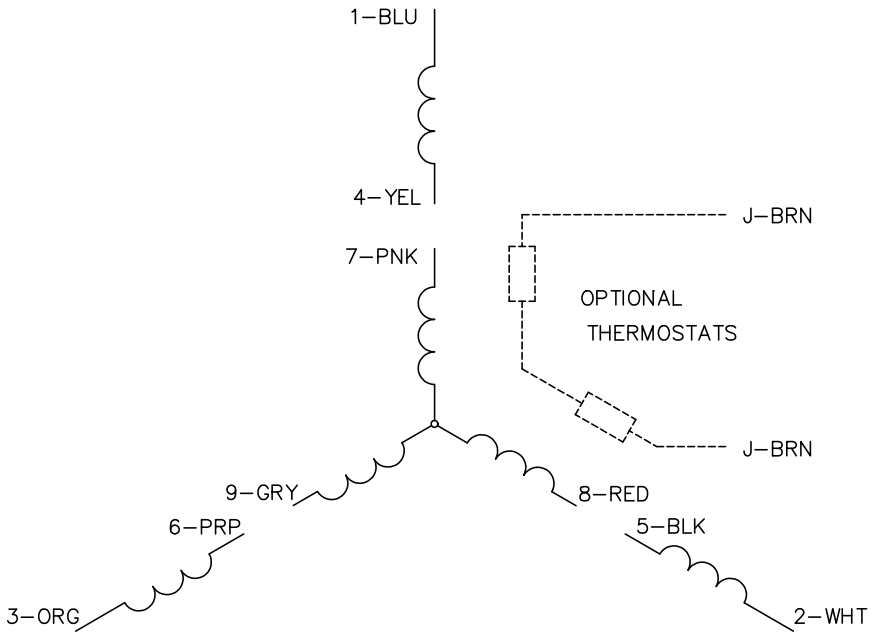
DR BY	BR
CK BY	
APP BY	BR
DATE	3/28/2017

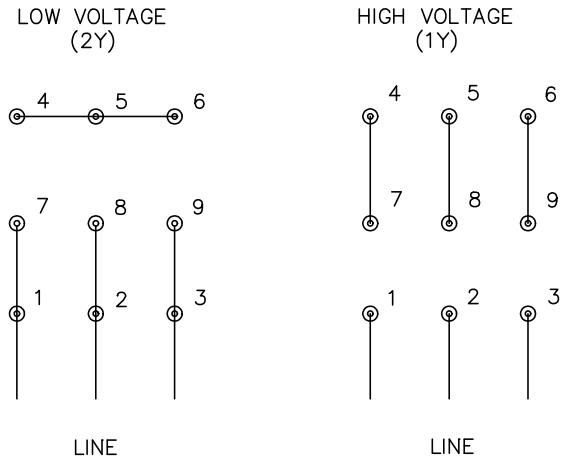
A-C MOTOR PERFORMANCE CURVES

09WGT341


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

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS