BALDOR • RELIANCE

Customer information packet

VEM3212T

5HP, 3450RPM, 3PH, 60HZ, 182TC, 3544M, OPEN, F1
Class - None
Division - Not Applicable

6/9/2025 4:18:09 AM

Specifications

Enclosure	OPEN
Frame	182TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.000 A @ 460.0 V
	13.000 A @ 208.0 V
	12.000 A @ 230.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part detail

Revision	P
Type	AC
Mech. spec.	35Z323
Base	
Status	PRD/A
Elec. spec.	35WGL285
Layout	35LYZ323
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	04-28-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3544M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.54 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3553LUA										
CAT.NO.	VEM3212T									
SPEC.	35Z323L285G1									
HP	5									
VOLTS	230/460									
AMPS	12/6									
RPM	3450									
FRAME	182TC	**HZ**	60	**PH**	3					
SF	1.15	**CODE**	M	**DES**	A	**CLASS**	F			
NEMA NOM. EFF	86.5	**PF**	89							
RATING	40C AMB-CONT									
CC	010A									
ENCL	OPEN	**SN**								
DE	6206	**ODE**	6203							
VPWM INVERTER READY										
CT30-60(2:1) VT3-60(20:1)										
USABLE AT	50HZ 5HP 190/380V 14.6/7.3A									SF1.0

AC Induction Motor Performance Data
Record # 53122
Typical performance - not guaranteed values

Winding: 35WGL285-R002	**Type:** 3544M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.66 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			12/6	**Breakdown Torque**	36.4 LB-FT
R.P.M.			3450	**Pull-up Torque**	23.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	33.8 LB-FT
NEMA Design Code	A	**KVA Code**	M	**Starting Current**	64.8 A
Service Factor (S.F.)			1.15	**No-load Current**	2.07 A
NEMA Nom. Eff.	86.5	**Power Factor**	89	**Line-line Res. @ 25ºC**	2.41 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	49°C
S.F. Amps				**Temp. Rise @ S.F. Load**	59°C
				Locked-rotor Power Factor	44.6
				Rotor inertia	0.122 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	77	85	89	90	92	90
Efficiency	83.2	87.9	88.6	88.2	86.5	84.7	87.2
Speed	3563	3532	3499	3462	3422	3379	3438
Line amperes	2.54	3.52	4.7	6.03	7.52	9.08	6.92

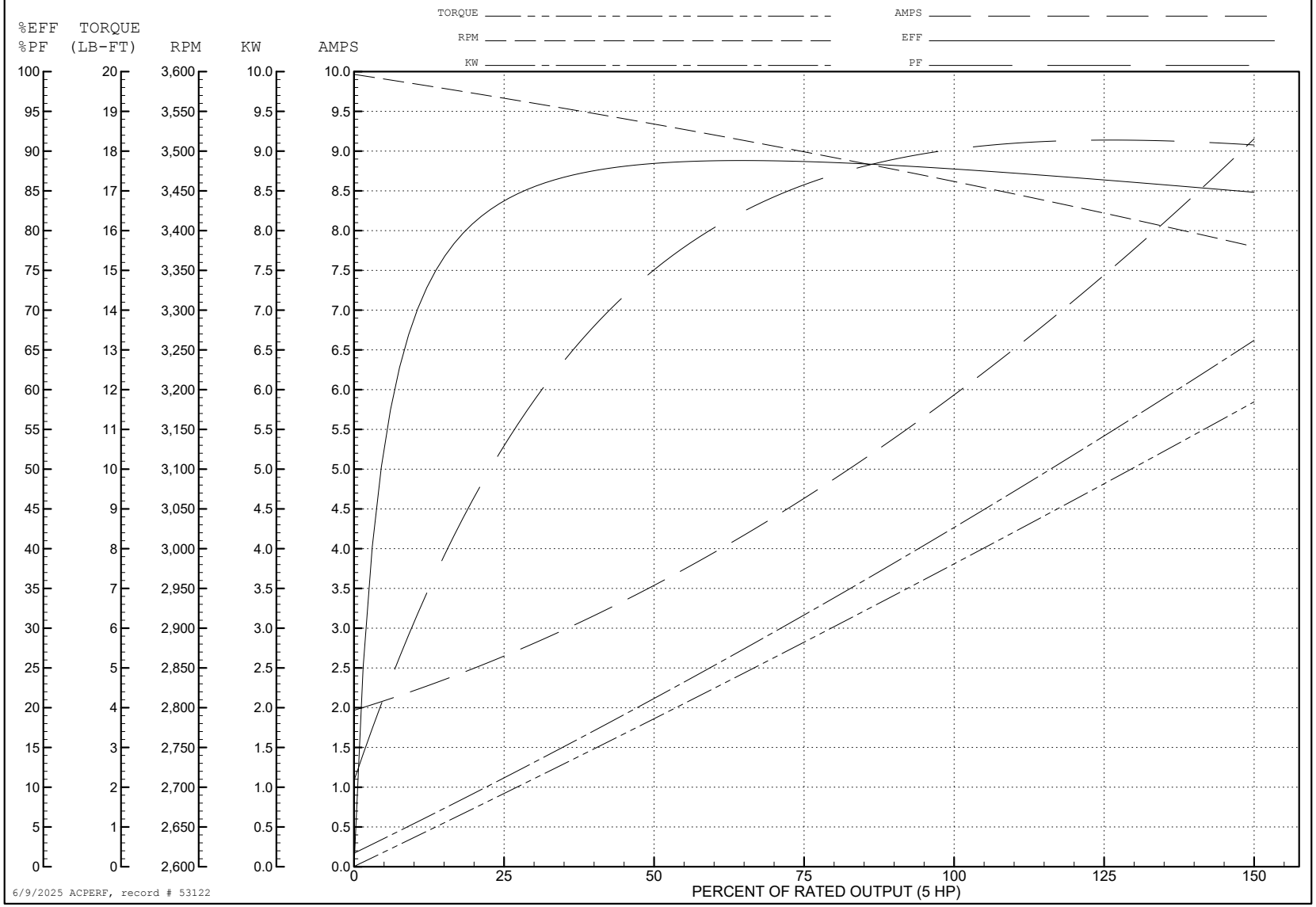
ABB Motors and Mechanical Inc.

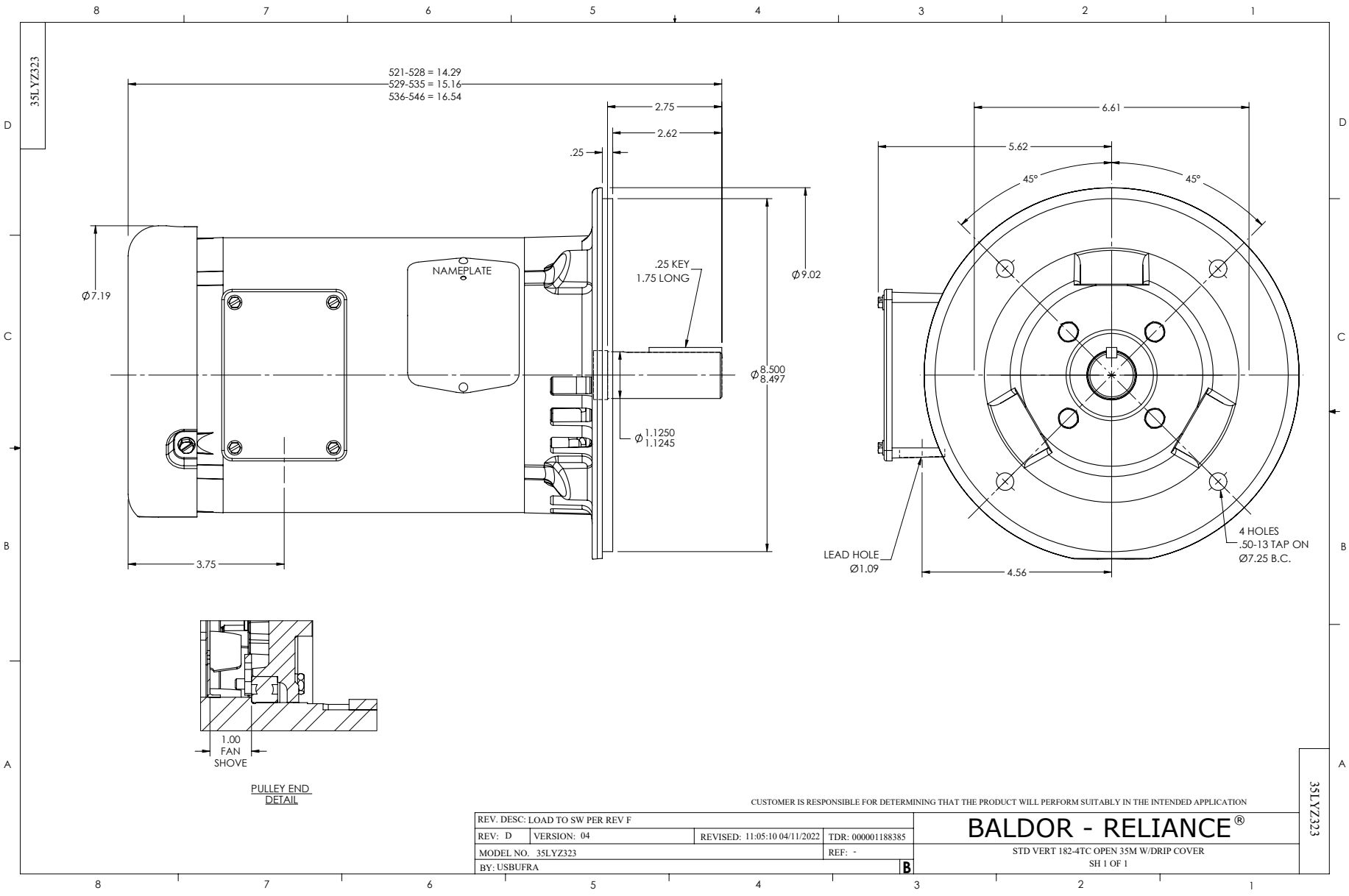
WINDING # 35WGL285

5 HP 3 PH 60 HZ 3450 RPM 460 V 3544M

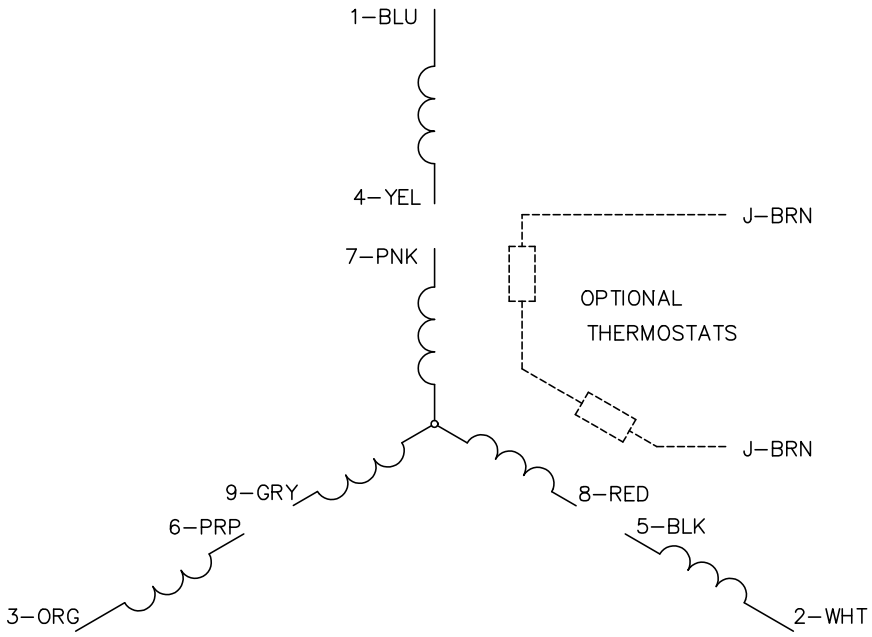
Typical performance - not guaranteed values.

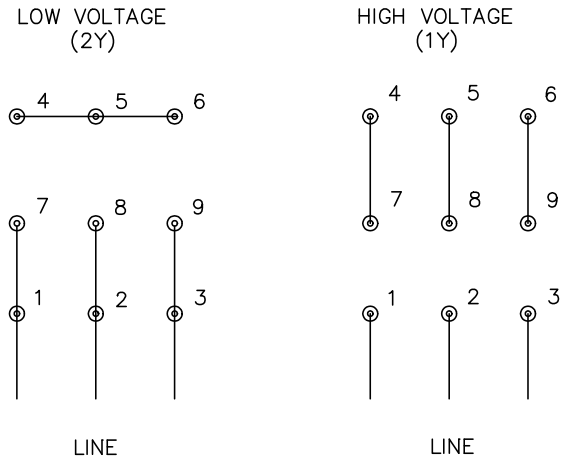
TORQUES(LB-FT): PO=36.4 PU=23.2 LR=33.8 LRA=64.8




35LYZ323
521-528 = 14.29
529-535 = 15.16
536-546 = 16.54
2.75
2.62
.25
NAMEPLATE
.25 KEY
1.75 LONG
Ø7.19
Ø9.02
Ø8.500
8.497
Ø1.1250
1.1245
3.75
6.61
5.62
45°
45°
LEAD HOLE
Ø1.09
4.56
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
1.00
FAN
SHOVE
PULLEY END
DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SW PER REV F
REV: D
VERSION: 04
REVISED: 11:05:10 04/11/2022
TDR: 000001188385
MODEL NO. 35LYZ323
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 182-4TC OPEN 35M W/DRIP COVER
SH 1 OF 1
35LYZ323

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