ABB BALDOR RELIANCE

Customer information packet

VSSEWDM3558

2HP, 1750RPM, 3PH, 60HZ, 56C, 3528M, TEFC, F1, N
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.
11/12/2026 12:55:50 AM

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 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 EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.600 A @ 208.0 V
	5.300 A @ 230.0 V
	2.650 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	E
Type	AC
Mech. spec.	35Z182
Base	
Status	PRD/A
Elec. spec.	35WGZ821
Layout	35LYZ182
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.7 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.88 IN
Power Factor	81
Product Family	Washdown All Stainless
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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

NP1953A01								
CAT.NO.								
SPEC.	35Z182Z821G1							
HP	2							
VOLTS	230/460							
AMP	5.6/2.8							
RPM	1760							
FRAME	56C		**HZ**	60		**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	H	
NEMA-NOM-EFF	86.5		**PF**	81				
RATING	40C AMB-CONT							
CC	010A							
DE	6205		**ODE**	6205				
ENCL	TEFC	**SN**						
	SFA 6/3							

AC Induction Motor Performance Data
Record # 87359
Preliminary Data Sheet

Winding: 35WGZ821-R001	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	5.97 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.6/2.8	**Breakdown Torque**	21 LB-FT
R.P.M.			1760	**Pull-up Torque**	11.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.1 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	22.5 A
Service Factor (S.F.)			1.15	**No-load Current**	1.55 A
NEMA Nom. Eff.	86.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	9.54 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps			6.3/3.15	**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	57.9
				Rotor inertia	0.202 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	36	57	70	78	82	85	83
Efficiency	79.5	86.2	87.4	87	85.7	83.9	86.3
Speed	1791	1782	1772	1762	1750	1738	1758
Line amperes	1.64	1.91	2.3	2.78	3.33	3.94	3.02

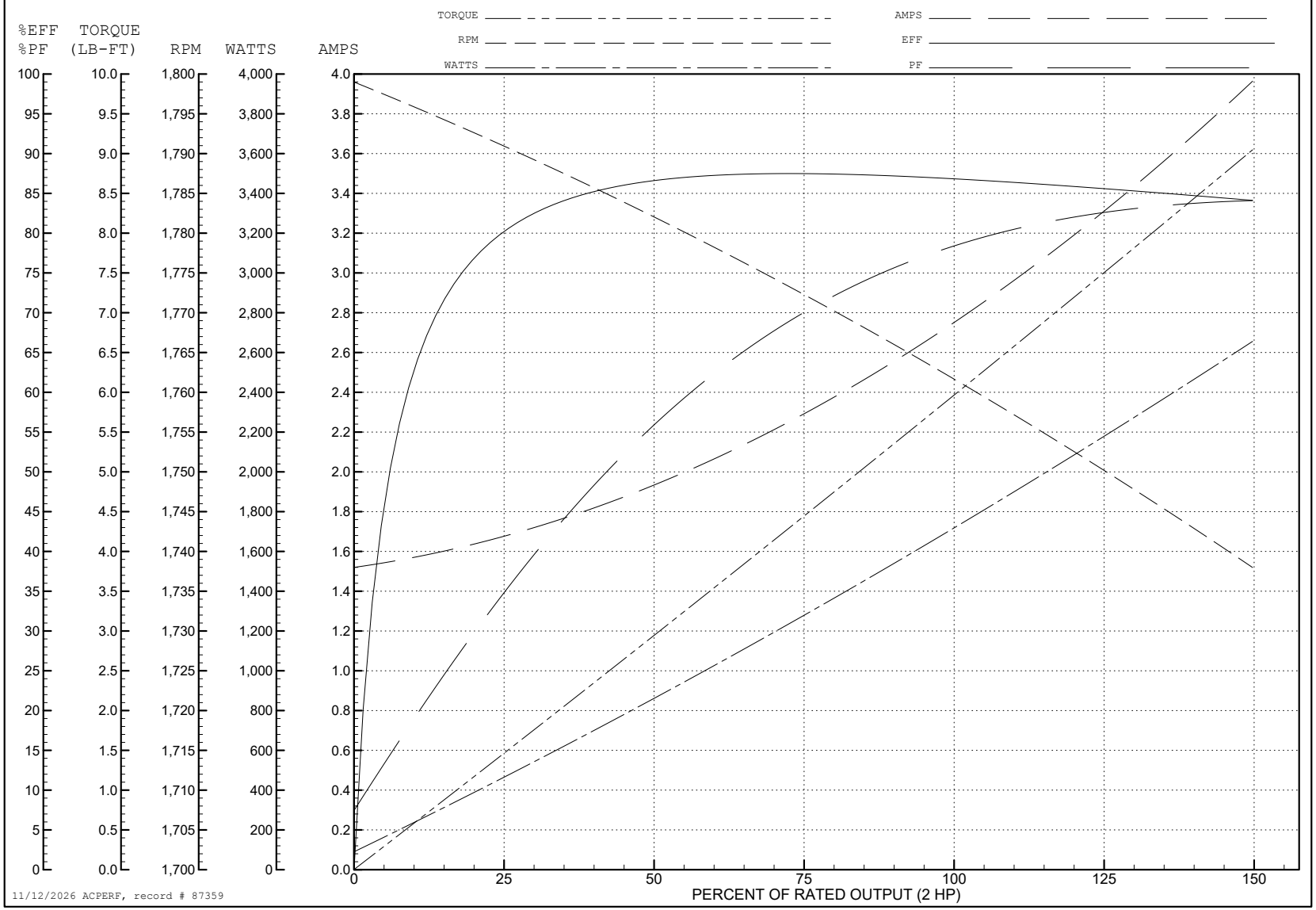
ABB Motors and Mechanical Inc.

WINDING # 35WGZ821

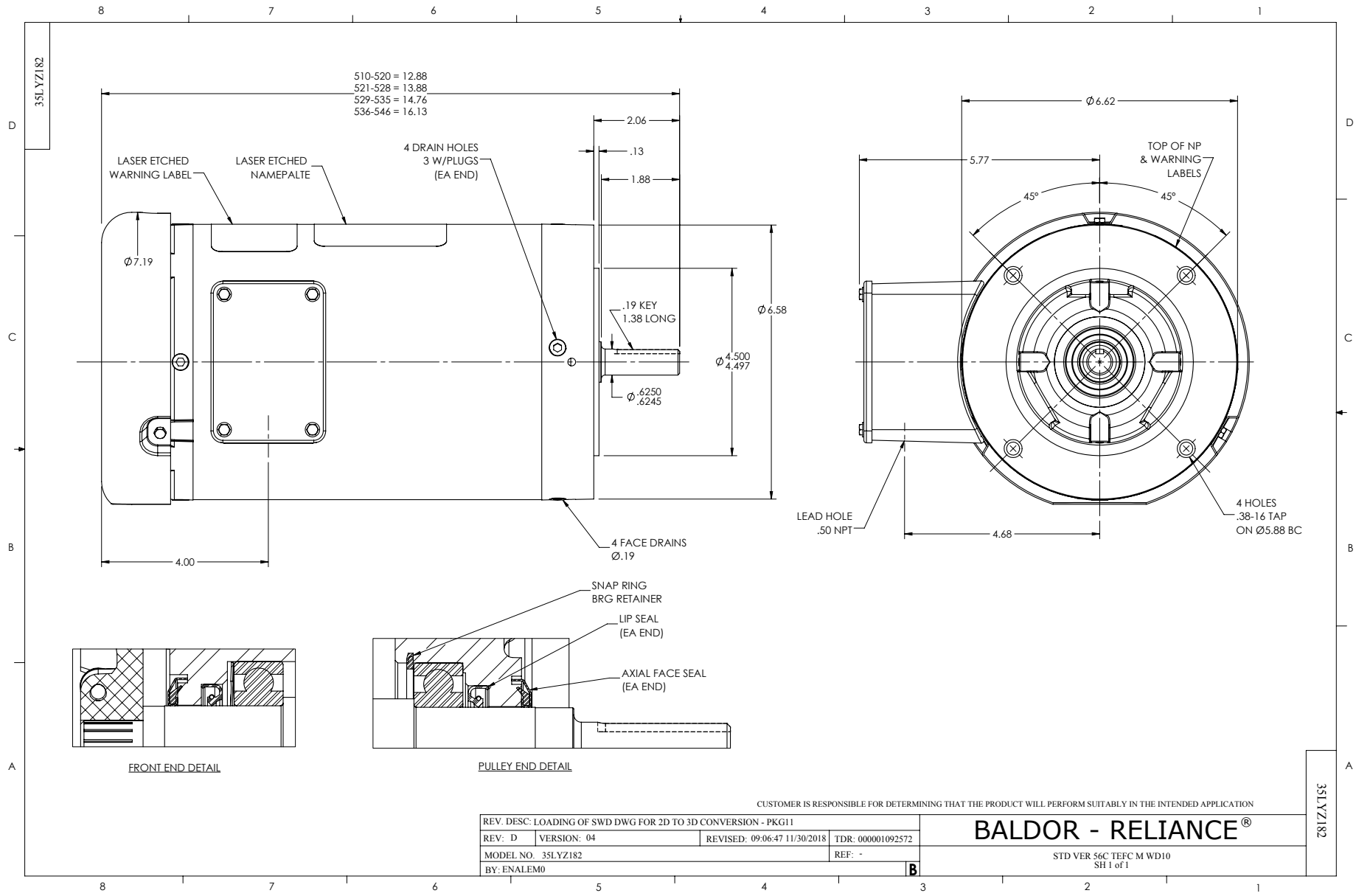
2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

Typical performance - not guaranteed values.

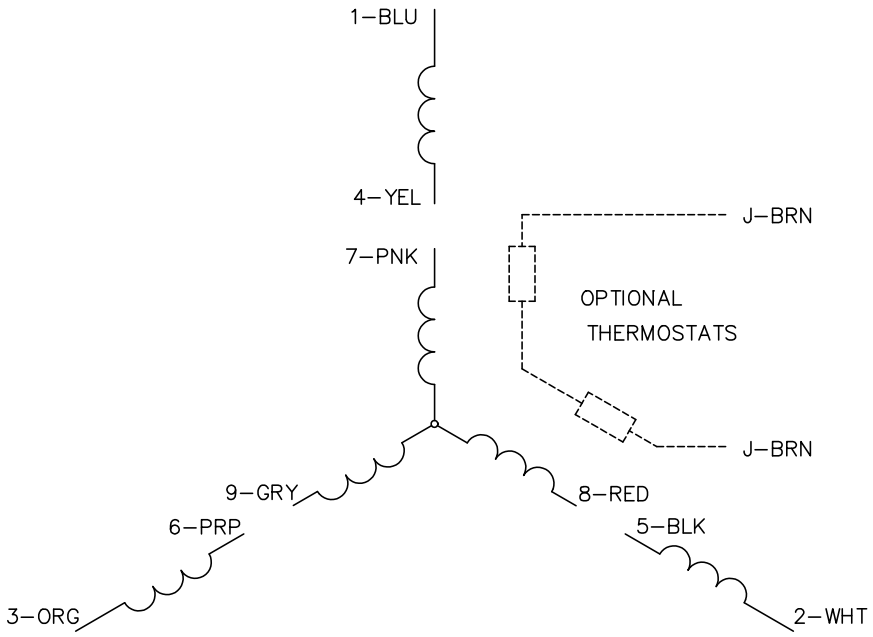
TORQUES(LB-FT): PO=21 PU=11.9 LR=15.1 LRA=22.5

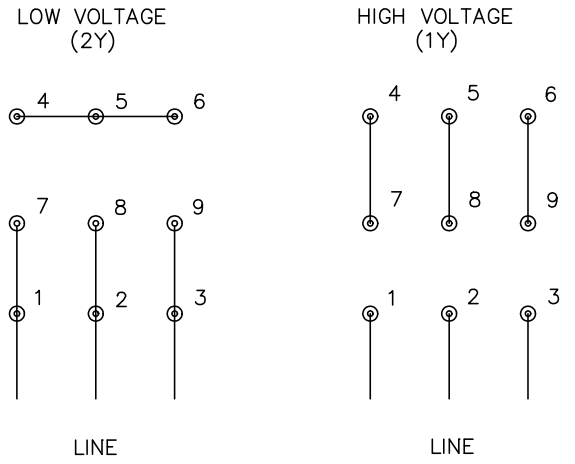


11/12/2026 ACPERF, record # 87359


35LYZ182
510-520 = 12.88
521-528 = 13.88
529-535 = 14.76
536-546 = 16.13
2.06
.13
1.88
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPALTE
4 DRAIN HOLES 3 W/PLUGS (EA END)
Ø7.19
.19 KEY 1.38 LONG
Ø6.58
Ø4.500 4.497
Ø .6250 .6245
4.00
4 FACE DRAINS Ø.19
Ø6.62
5.77
TOP OF NP & WARNING LABELS
45°
45°
LEAD HOLE .50 NPT
4.68
4 HOLES .38-16 TAP ON Ø5.88 BC
SNAP RING BRG RETAINER
LIP SEAL (EA END)
AXIAL FACE SEAL (EA END)
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG11
REV: D VERSION: 04 REVISED: 09:06:47 11/30/2018 TDR: 000001092572
MODEL NO. 35LYZ182 REF: -
BY: ENALEM0 B
BALDOR - RELIANCE®
STD VER 56C TEFC M WD10
SH 1 of 1
35LYZ182

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