ABB BALDOR RELIANCE

Customer information packet

IDVSWDM3554

1.5HP, 1770RPM, 3PH, 60HZ, 56C, 3524M, TEFC, F1
Class - None
Division - Not Applicable

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11/23/2026 6:33:07 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	1.500 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	CSA
	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	2.300 A @ 460.0 V
	4.600 A @ 230.0 V
	4.640 A @ 208.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a

Part Detail

Revision	-
Type	AC
Mech. spec.	35S640
Base	
Status	PRD/A
Elec. spec.	35WGL955
Layout	35LYS640
Eff. date	09-30-2022
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	03-11-2022

Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4000 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.22 IN
Power Factor	72
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 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

NP1608L								
CAT NO	IDVSWDM3554							
SPEC.	35S640L955G1							
FRAME	56C		**HP**	1.5 TE				
VOLTS	230/460							
MAG CUR	3/1.5			**FLA**	4.6/2.3			
RPM	1770			**RPM MAX**	4000			
HZ	60	**PH**	3	**CLASS**	H			
SER.F.	1.00	**DES**	B	**SL HZ**	1			
NEMA-NOM-EFF	86.5	**WK2**	0.174					
BLWR V		**PH**		**HZ**		**A**		
RATING	40C AMB-CONT							
DE BRG	6205		**ODE BRG**	6203				
CC	010A	**SN**						
	INV WDG ISR WIRE							

AC Induction Motor Performance Data
Record # 95394
Typical performance - not guaranteed values

Winding: 35WGL955-R008	**Type:** 3524M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.48 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.6/2.3	**Breakdown Torque**	18.8 LB-FT
R.P.M.			1770	**Pull-up Torque**	9.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	12.6 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	19.7 A
Service Factor (S.F.)			1	**No-load Current**	1.51 A
NEMA Nom. Eff.	86.5	**Power Factor**	72	**Line-line Res. @ 25ºC**	11.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
				Locked-rotor Power Factor	58.4
				Rotor inertia	0.173 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	31	49	63	72	78	81
Efficiency	75.1	83.5	86	86.5	85.8	84.8
Speed	1792	1785	1777	1769	1760	1750
Line amperes	1.56	1.72	1.97	2.28	2.65	3.06

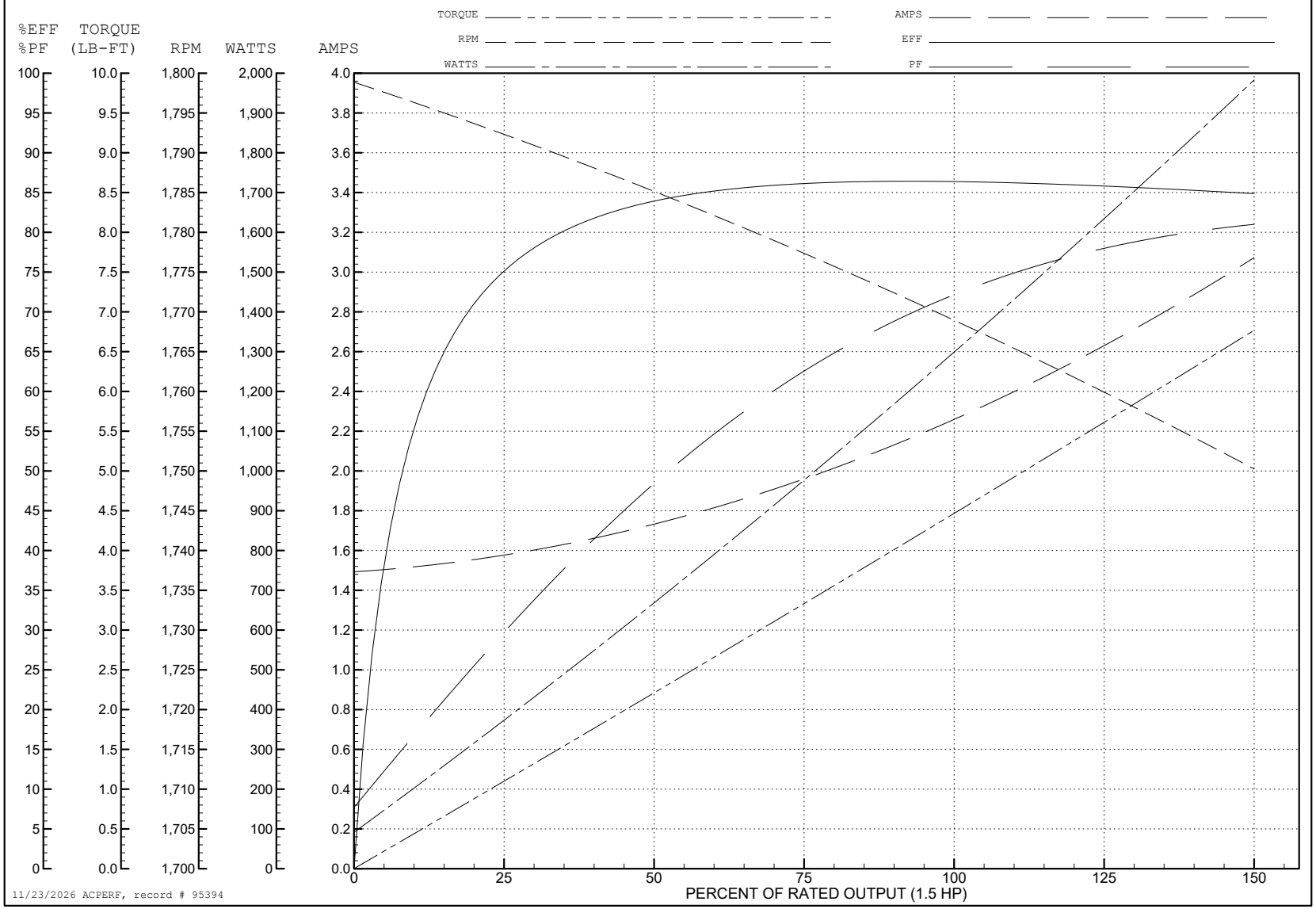
ABB Motors and Mechanical Inc.

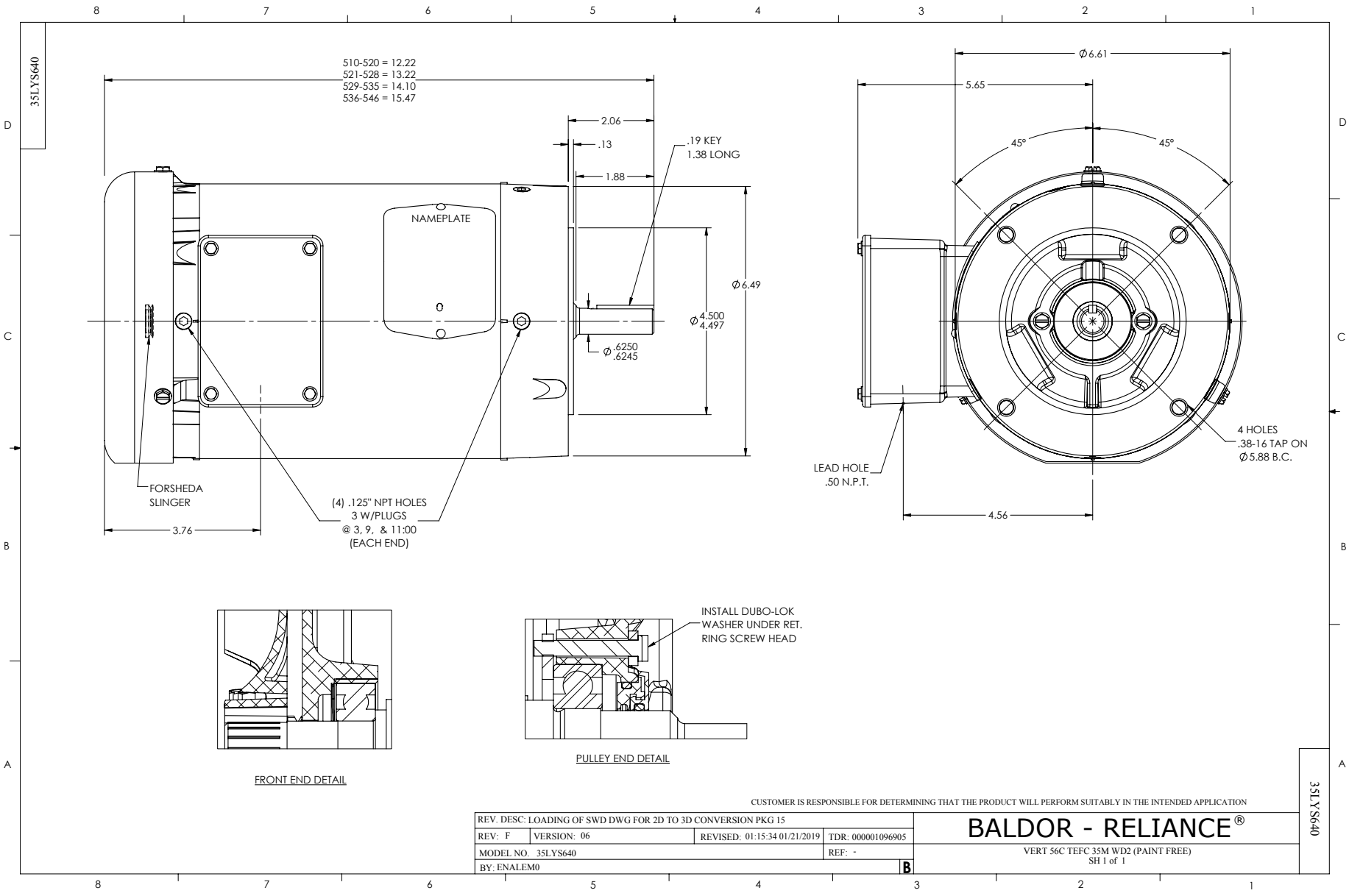
WINDING # 35WGL955

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3524M

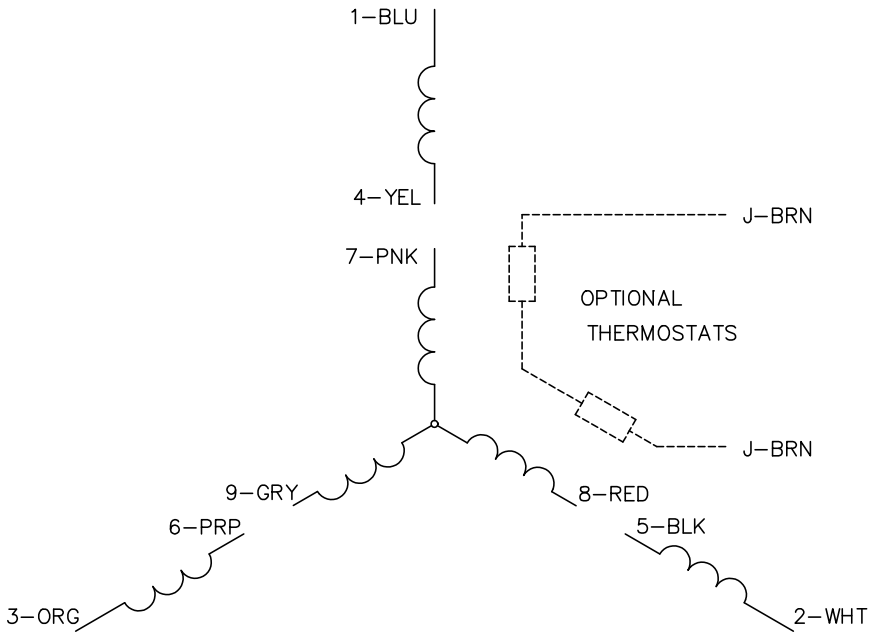
Typical performance - not guaranteed values.

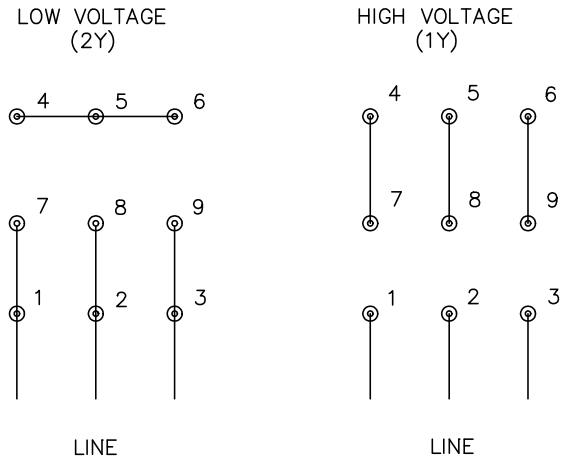
TORQUES(LB-FT): PO=18.8 PU=9.6 LR=12.6 LRA=19.7




35LYS640
510-520 = 12.22
521-528 = 13.22
529-535 = 14.10
536-546 = 15.47
2.06
.13
.19 KEY
1.38 LONG
1.88
NAMEPLATE
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
FORSHEDA
SLINGER
3.76
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(EACH END)
Ø6.61
5.65
45°
45°
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
4.56
INSTALL DUBO-LOK
WASHER UNDER RET.
RING SCREW HEAD
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 PKG 15
REV: F
VERSION: 06
REVISED: 01:15:34 01/21/2019
TDR: 000001096905
MODEL NO. 35LYS640
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 56C TEFC 35M WD2 (PAINT FREE)
SH 1 of 1
35LYS640

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