ABB BALDOR RELIANCE

Customer information packet

VFSWDL3507

.75HP, 1745RPM, 1PH, 60HZ, 56C, 3530L, TEFC, F1
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.
11/5/2026 9:52:02 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	Cap Start, Induction Run
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	WEEE
	C UR US
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	4.100 A @ 230.0 V
	8.200 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	35E4628
Base	
Status	PRD/A
Elec. spec.	35WGG409
Layout	35LYE4628
Eff. date	12-03-2024
CD Diagram	CD0648
Poles	04
Leads	7#18
Proprietary	False
Created date	02-23-2023

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.83 IN
Power Factor	78
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1745 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

NP4427ALG30										
CAT #	VFSWDL3507			**WT**	33	**LBS**				
SPEC	35E4628G409G1			**ENCL**	TEFC					
SER #				**CC**		**IP**	69			
HP	.75					**NEMA NOM. EFF**		74		
VOLTS	115/230									
AMPS	8.2/4.1					**PF**	78			
RATING	40C AMB-CONT									
RPM	1745									
FRAME	56C	**HZ**	60	**CODE**	K	**CLASS**		F		
SER.F.	1.15	**SF AMP**				**PH**	1	**DES**	N	
DE	6205		**ODE**	6205						
LUBRICATION	POLYREX EM									
								QR		
YR										

AC Induction Motor Performance Data
Record # 89159
Typical performance - not guaranteed values

Winding: 35WGG409-R001	**Type:** 3530L	**Enclosure:** TEFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.23 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			8.2/4.1	**Breakdown Torque**	5.29 LB-FT
R.P.M.			1745	**Pull-up Torque**	3.99 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	8.9 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	51.11 A
Service Factor (S.F.)			1.25	**No-load Current**	4.46 A
NEMA Nom. Eff.	74	**Power Factor**	78	**Line-line Res. @ 25ºC**	0.917 Ω A Ph 1.84 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps			9.9/4.95	**Temp. Rise @ S.F. Load**	
				Locked-rotor Power Factor	95.6
				Rotor inertia	0.217 lb-ft²

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	59	71	77	82	85	82
Efficiency	61.6	73	75.5	75.4	73.4	70.2	73.4
Speed	1786	1773	1759	1744	1726	1702	1726
Line amperes	4.81	5.65	6.82	8.22	9.88	11.8	9.88

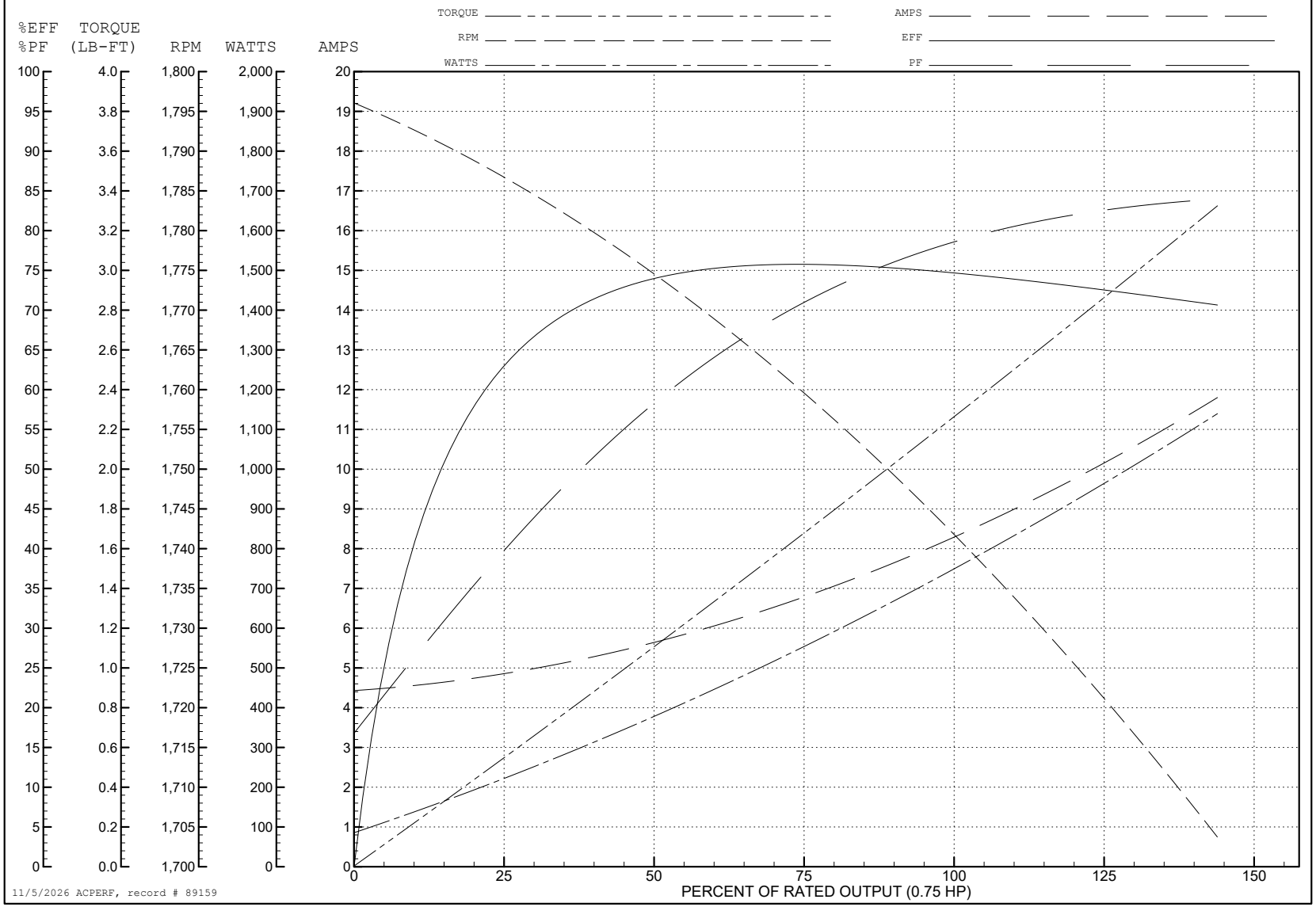
ABB Motors and Mechanical Inc.

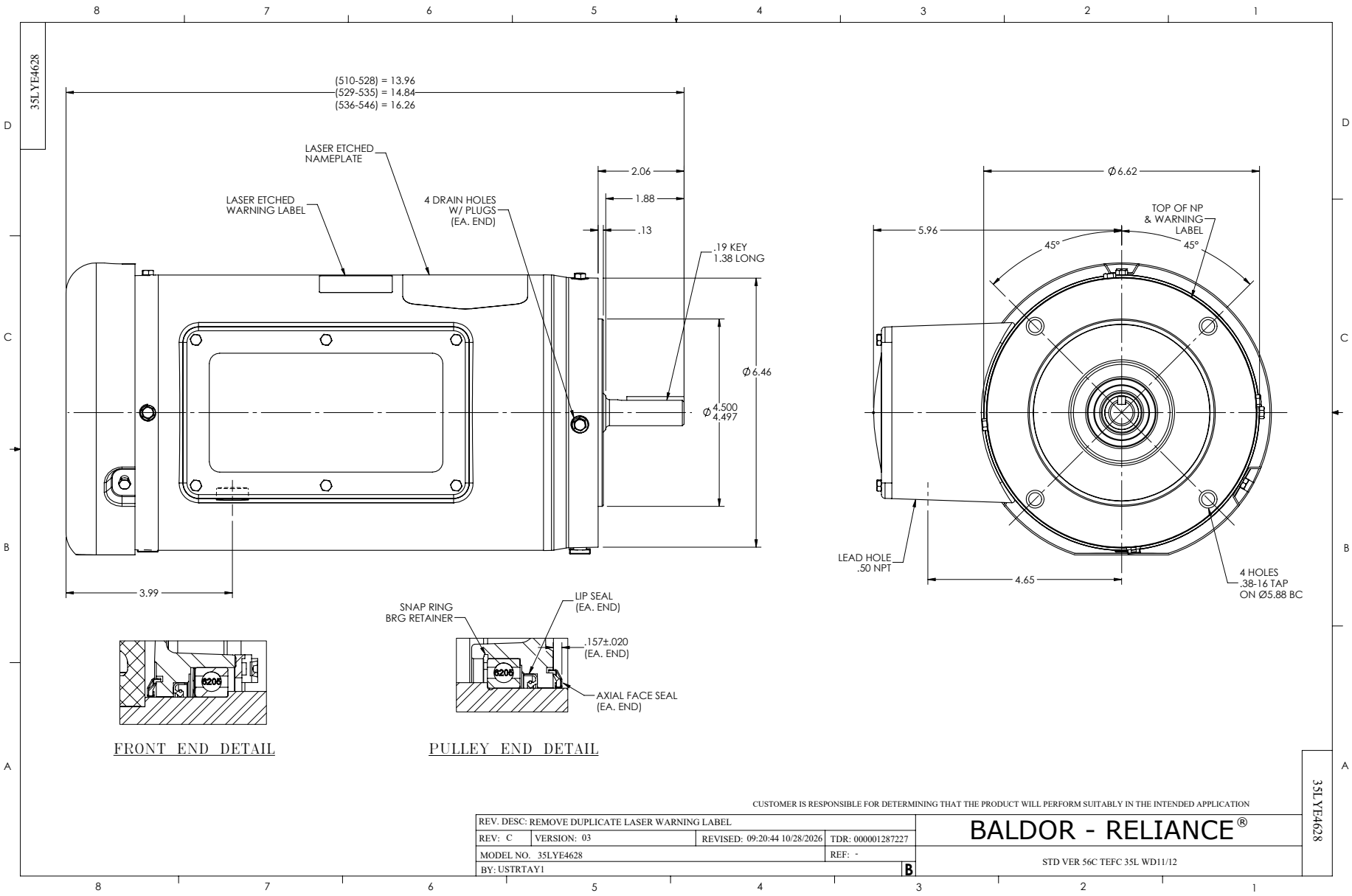
WINDING # 35WGG409

0.75 HP 1 PH 60 HZ 1745 RPM 115 V 3530L

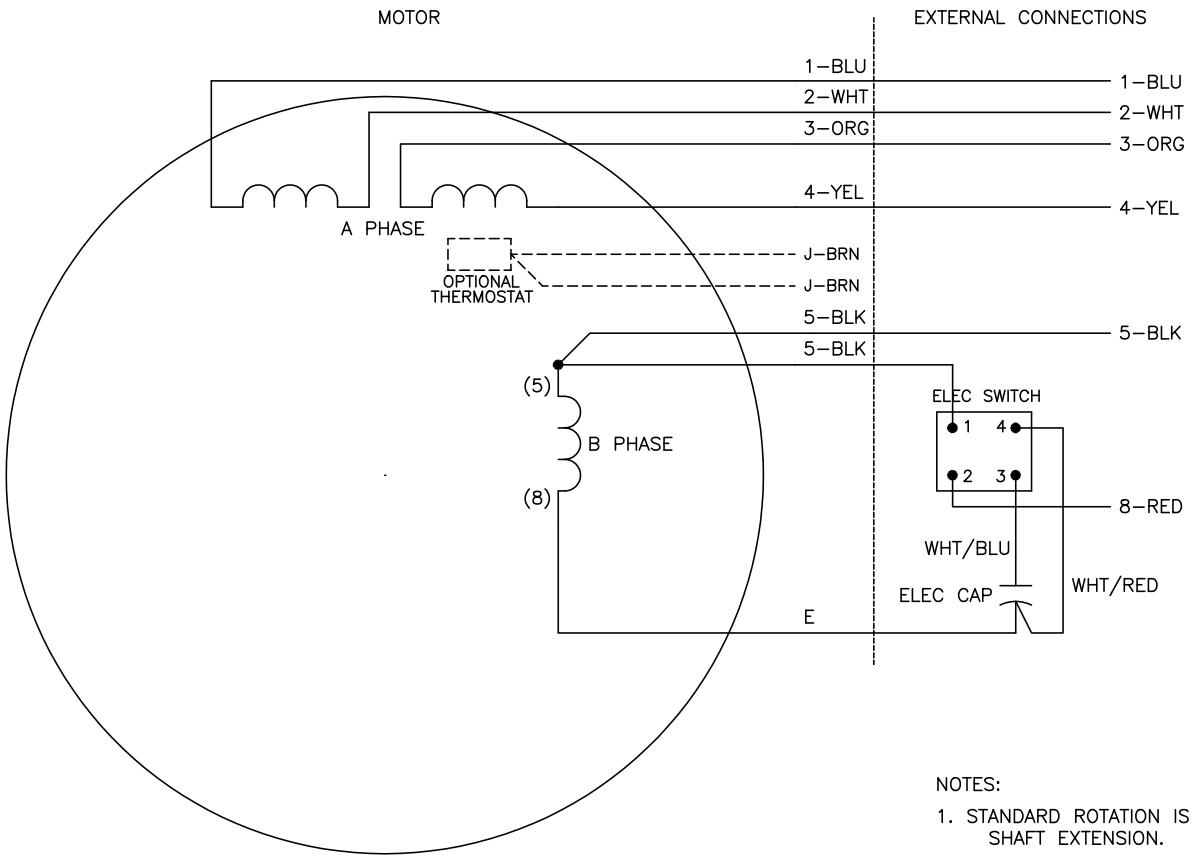
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=5.29 PU=3.99 LR=8.9 LRA=51.11




35LYE4628
(510-528) = 13.96
(529-535) = 14.84
(536-546) = 16.26
LASER ETCHED NAMEPLATE
LASER ETCHED WARNING LABEL
4 DRAIN HOLES W/ PLUGS (EA. END)
2.06
1.88
.13
.19 KEY 1.38 LONG
Ø6.46
Ø4.500 4.497
3.99
Ø6.62
5.96
45°
45°
TOP OF NP & WARNING LABEL
LEAD HOLE .50 NPT
4.65
4 HOLES .38-16 TAP ON Ø5.88 BC
SNAP RING BRG RETAINER
LIP SEAL (EA. END)
.157±.020 (EA. END)
AXIAL FACE SEAL (EA. END)
6206
6205
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE DUPLICATE LASER WARNING LABEL
REV: C
VERSION: 03
REVISED: 09:20:44 10/28/2026
TDR: 000001287227
MODEL NO. 35LYE4628
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
STD VER 56C TEFC 35L WD11/12
35LYE4628

CD0648



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	–
LOW OPP	1,3,5	2,4,8	–

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. USE STEARNS ELECTRONIC START SWITCH OR EQUIVALENT.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0648

REV. DESC: ADD OPTIONAL LEAD COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 12/04/00 10:12	TDR: 0226347
CD0648		FILE: AAA00011416	REF: –
		MTL: –	TYPE L, DV, REV, 6 LEAD, SEPERATE CAP AND ELECTRONIC SWITCH