BALDOR • RELIANCE

Customer information packet

VL3514-50

1.5/1.1KW, 1455RPM, 1PH, 50HZ, 56C, 3540LC, TE
Class - None
Division - Not Applicable

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12/22/2025 11:46:08 AM

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.100 KW @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	220.0 V @ 50 HZ
Agency Approvals	C UR US
	WEEE
	UKCA
	CURUS
	CE
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	6.200 A @ 220.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.2 a

Part detail

Revision	G
Type	AC
Mech. spec.	35E022
Base	
Status	PRD/A
Elec. spec.	35WGG774
Layout	35LYE022
Eff. date	09-17-2025
CD Diagram	CD0017A02
Poles	04
Leads	4#18
Proprietary	False
Created date	10-10-2023

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.48 IN
Power Factor	98
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	1455 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

NP1372L									
CAT.NO.	VL3514-50								
SPEC.	35E022G774								
HP	1.5/1.1KW								
VOLTS	220								
AMP	6.2								
R.P.M. (1/MIN)	1455								
FRAME	56C	**HZ**	50		**PH**	1			
SER.F.	1.15	**CODE**	J	**DES**	-	**CL**	F		
NEMA-NOM-EFF	81.4	**PF**	98						
RATING	40C AMB-S1 CONT								
CC			IP44 IC411 35KG						
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
	IE2-50HZ 81(75%),76(50%)								

AC Induction Motor Performance Data
Record # 101541
Typical performance - not guaranteed values

Winding: 35WGG774-R001	**Type:** 3540LC	**Enclosure:** TEFC

Nameplate Data				**220 V, 50 Hz: Single Voltage Motor**	
Rated Output (KW)			1.1	**Full Load Torque**	5.317 LB-FT
Volts			220	**Start Configuration**	direct on line
Full Load Amps			6.2	**Breakdown Torque**	14.3 LB-FT
R.P.M.			1455	**Pull-up Torque**	11.5 LB-FT
Hz	50	**Phase**	1	**Locked-rotor Torque**	14.3 LB-FT
NEMA Design Code	-	**KVA Code**	J	**Starting Current**	49.2 A
Service Factor (S.F.)			1.15	**No-load Current**	1.46 A
NEMA Nom. Eff.	81.4	**Power Factor**	98	**Line-line Res. @ 25ºC**	1.8474 Ω A Ph 2.6102 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps				**Temp. Rise @ S.F. Load**	68°C

Load Characteristics 220 V, 50 Hz, 1.1 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	94	98	98	98	98	98	98
Efficiency	60.6	76.7	81.7	82.9	82.1	79.4	82.4
Speed	1488.5	1479	1468.7	1456.9	1442.7	1424.4	1448
Line amperes	2.21	3.36	4.67	6.13	7.74	9.61	7.1

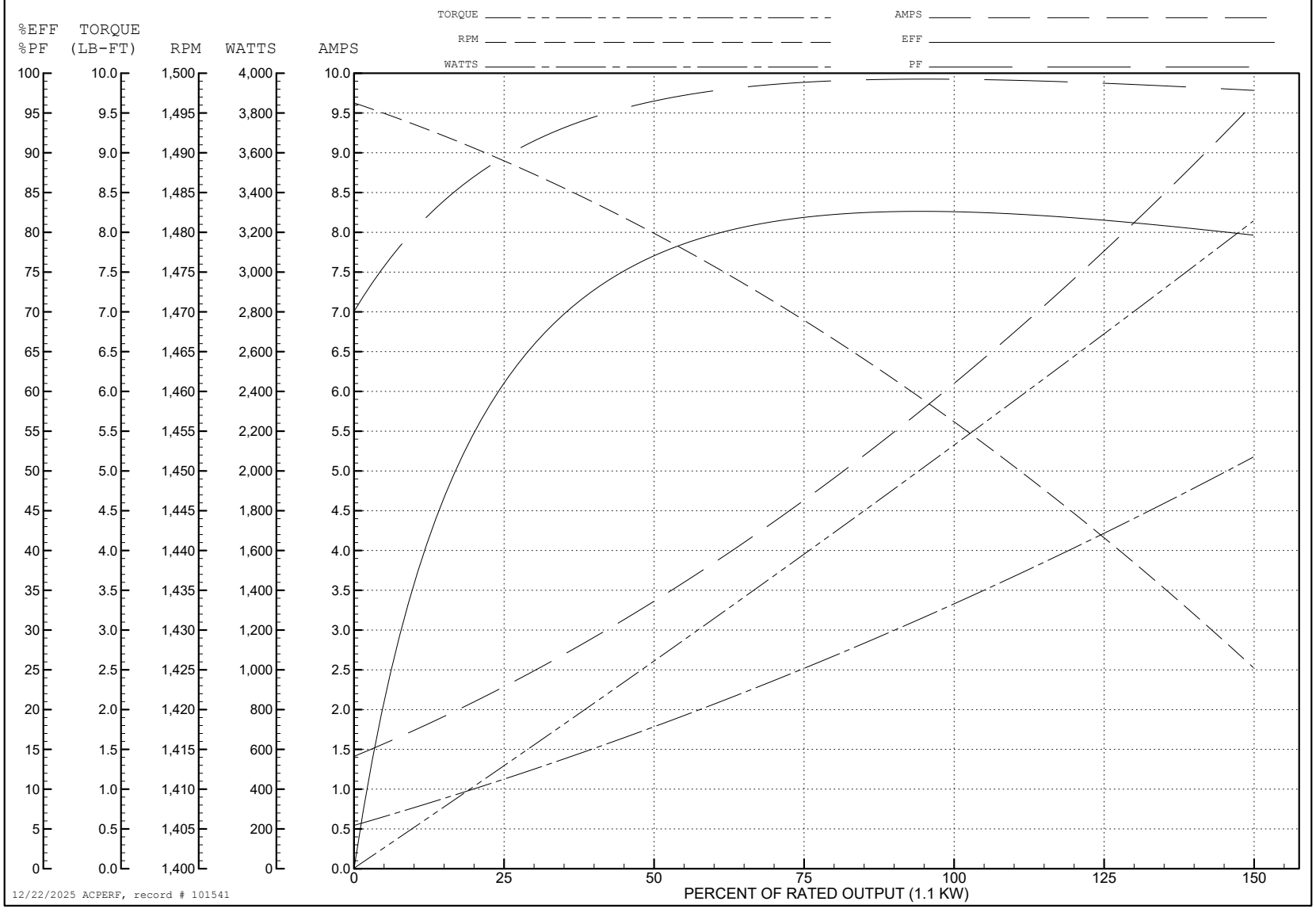
ABB Motors and Mechanical Inc.

WINDING # 35WGG774

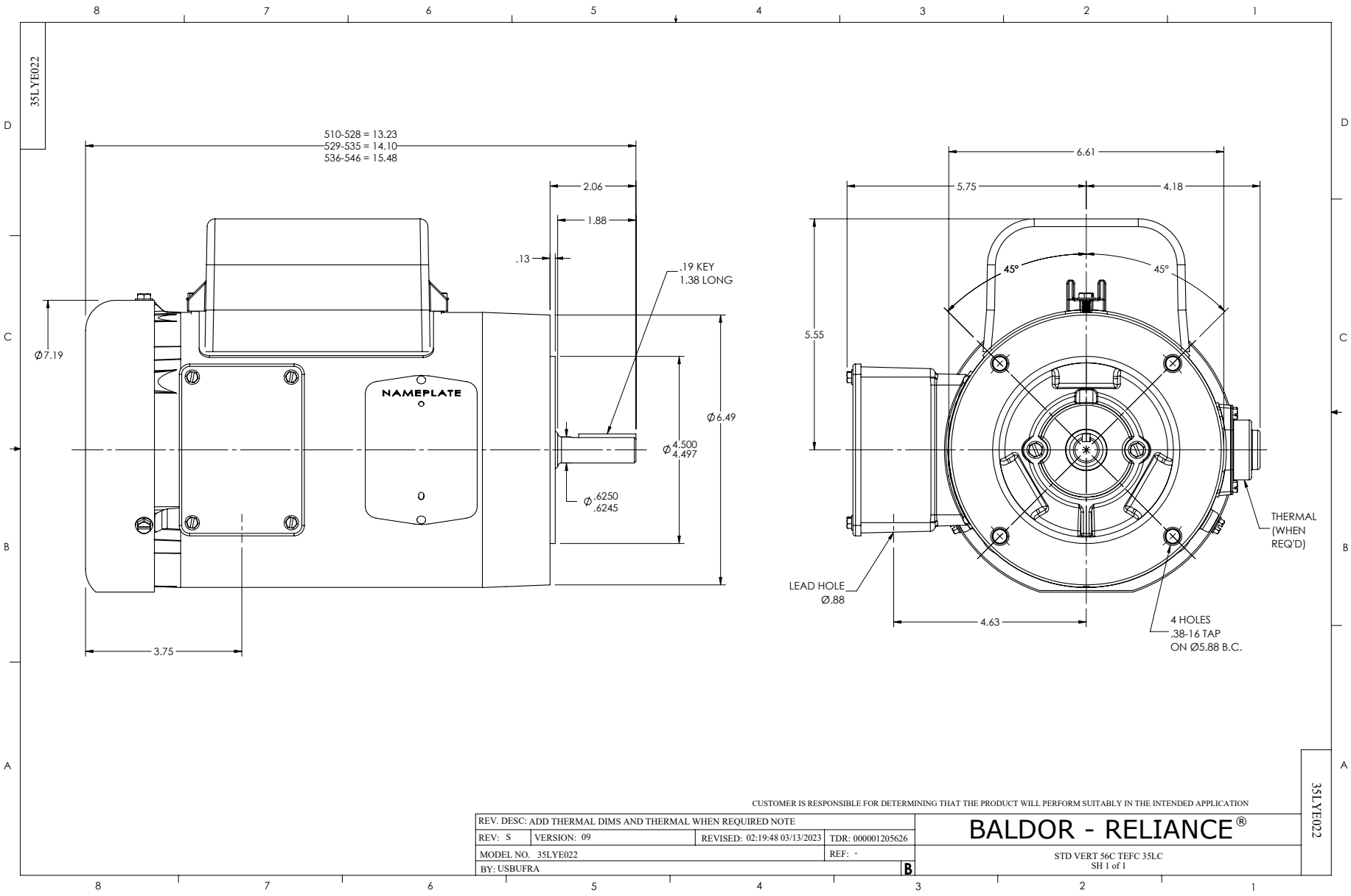
1.1 KW 1 PH 50 HZ 1455 RPM 220 V 3540LC

Typical performance - not guaranteed values.

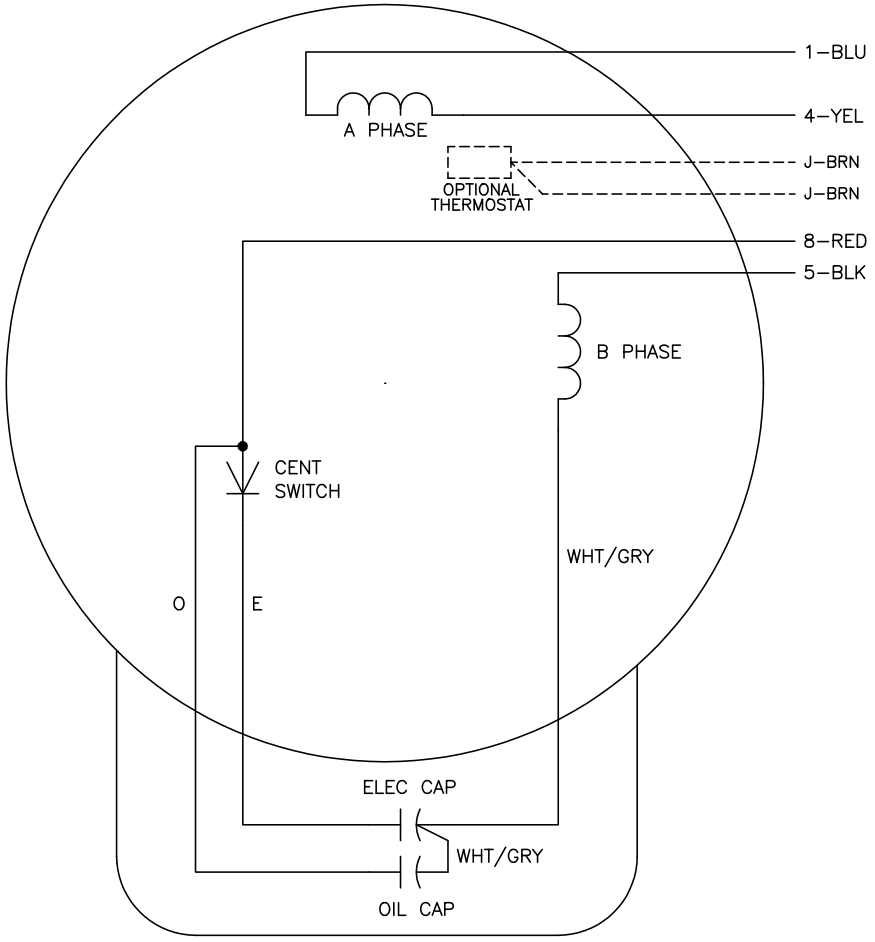
TORQUES(LB-FT): PO=14.3 PU=11.5 LR=14.3 LRA=49.2



12/22/2025 ACPERF, record # 101541


35LYE022
510-528 = 13.23
529-535 = 14.10
536-546 = 15.48
2.06
1.88
.13
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
3.75
6.61
5.75
4.18
45°
45°
5.55
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø.88
4.63
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: S
VERSION: 09
REVISED: 02:19:48 03/13/2023
TDR: 000001205626
MODEL NO. 35LYE022
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 56C TEFC 35LC
SH 1 of 1
35LYE022

CD0017A02



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	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. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/09/99 11:30	TDR: 0178636
CD0017A02		FILE: AAA00007514	MDL: –
		MTL: –	TYPE LC, SV, REV, 4 LEADS

CD0017A02