ABB BALDOR RELIANCE

Customer information packet

VL3515-50

2/1.5KW, 2900RPM, 1PH, 50HZ, 56C, 3536LC, TEFC
Class - None
Division - Not Applicable

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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	1.500 KW @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	3000 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	8.300 A @ 220.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.3 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.3 a

Part Detail

Revision	H
Type	AC
Mech. spec.	35E022
Base	
Status	PRD/A
Elec. spec.	35WGG772
Layout	35LYE022
Eff. date	04-20-2026
CD Diagram	CD0055
Poles	02
Leads	4#16 A PH,2#18 B PH
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 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3536LC
Mounting Arrangement	F1
Number of Poles	2
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	2900 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.	VL3515-50							
SPEC.	35E022G772							
HP	2/1.5KW							
VOLTS	110/220							
AMP	17/8.5							
R.P.M. (1/MIN)	2900							
FRAME	56C	**HZ**	50		**PH**	1		
SER.F.	1.15	**CODE**	H	**DES**	-	**CL**	F	
NEMA-NOM-EFF	81.3	**PF**	95					
RATING	40C AMB-S1 CONT							
CC			IP44 IC411 34KG					
DE	6205		**ODE**	6203				
ENCL	TEFC	**SN**						
	IE2-50HZ 84.1(75%) 81.6(50%)							

AC Induction Motor Performance Data
Record # 101543
Typical performance - not guaranteed values

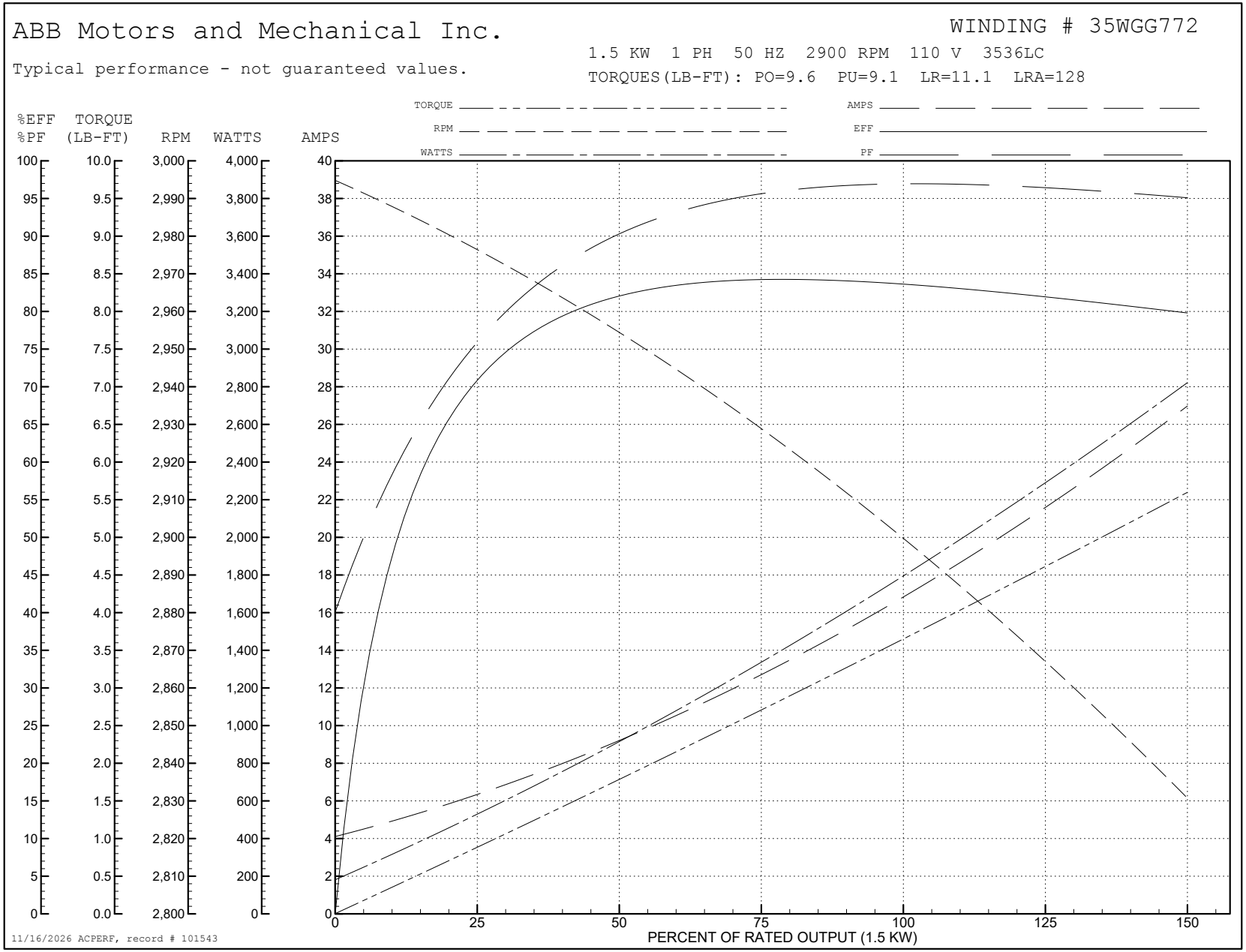
Winding: 35WGG772-R001	**Type:** 3536LC	**Enclosure:** TEFC

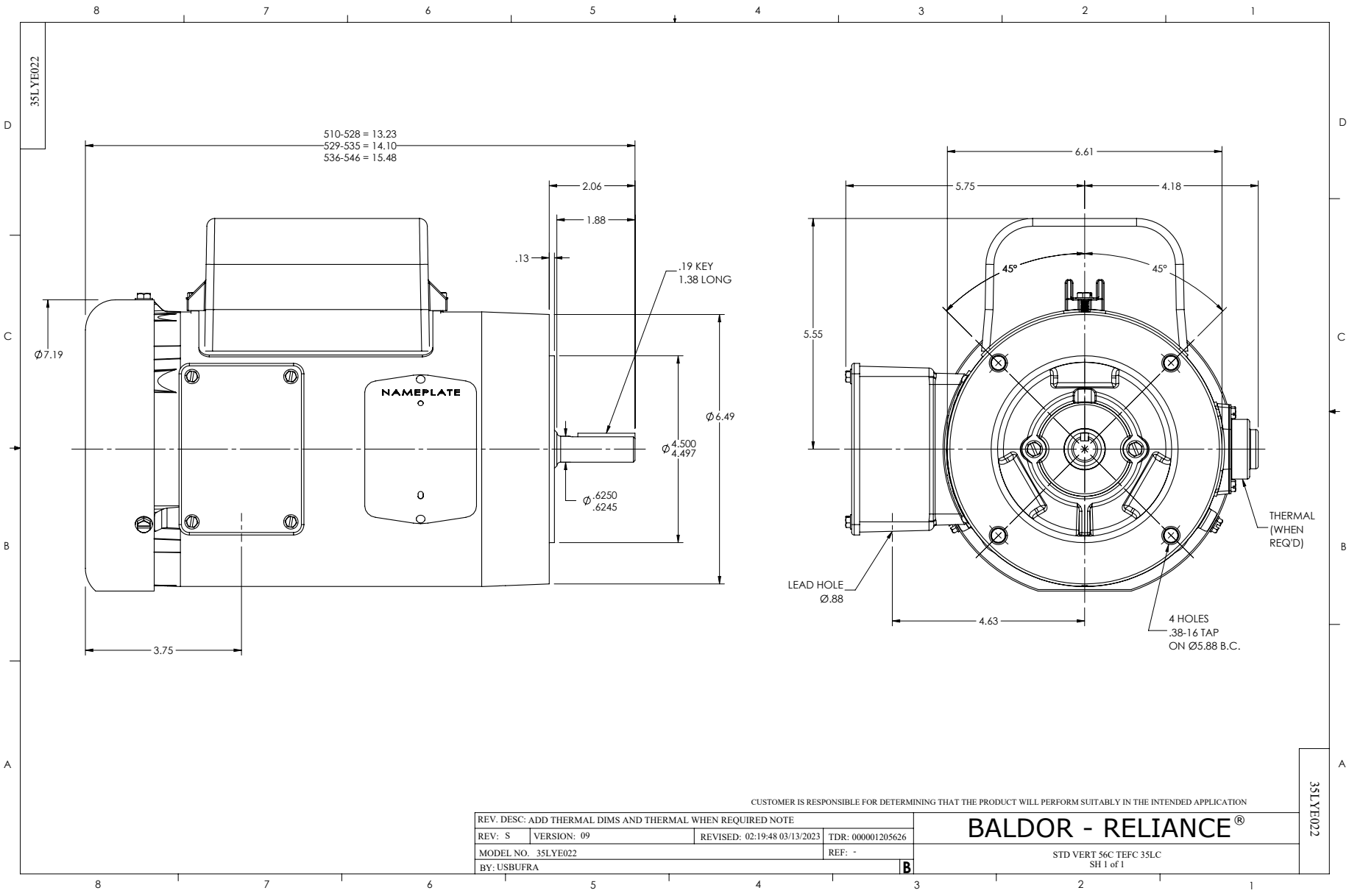
Nameplate Data			
Rated Output (KW)			1.5
Volts			110/220
Full Load Amps			17/8.5
R.P.M.			2900
Hz	50	**Phase**	1
NEMA Design Code	-	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	81.3	**Power Factor**	95
Rating - Duty			40C AMB-CONT
S.F. Amps			

110 V, 50 Hz: Low Voltage Connection	
Full Load Torque	3.65 LB-FT
Start Configuration	direct on line
Breakdown Torque	9.6 LB-FT
Pull-up Torque	9.1 LB-FT
Locked-rotor Torque	11.1 LB-FT
Starting Current	128 A
No-load Current	4.36 A
Line-line Res. @ 25ºC	0.232 Ω A Ph 0.669 Ω B Ph
Temp. Rise @ Rated Load	52°C
Temp. Rise @ S.F. Load	65°C
Locked-rotor Power Factor	86.7
Rotor inertia	0.0774 lb-ft²

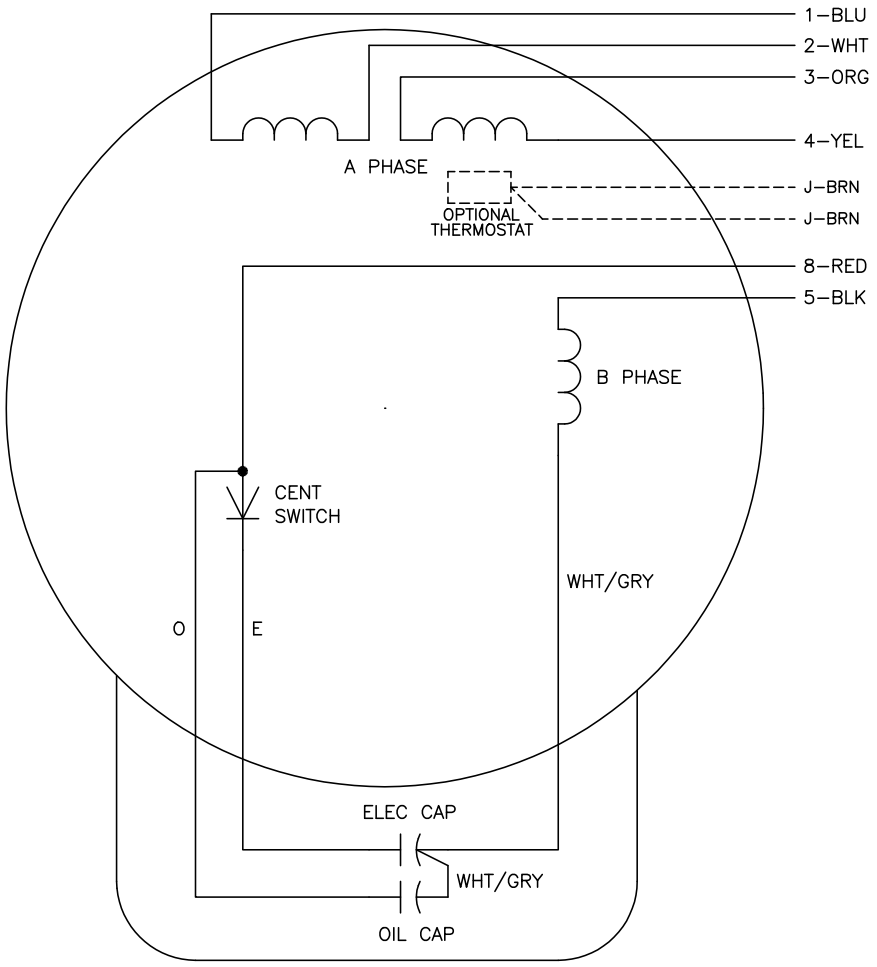
Load Characteristics 110 V, 50 Hz, 1.5 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	83	92	95	95	96	96	96
Efficiency	69.5	81.6	84.1	84.1	82.2	79.5	83
Speed	2975	2954	2933	2897	2866	2832	2878
Line amperes	6	9.14	12.83	17.02	21.53	26.88	19.7


ABB Motors and Mechanical Inc.
WINDING # 35WGG772
Typical performance - not guaranteed values.
1.5 KW 1 PH 50 HZ 2900 RPM 110 V 3536LC
TORQUES(LB-FT): PO=9.6 PU=9.1 LR=11.1 LRA=128
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
11/16/2026 ACPERF, record # 101543
PERCENT OF RATED OUTPUT (1.5 KW)


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

CD0055



	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. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0055

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS