

ABB BALDOR RELIANCE III

Customer information packet

VL3514-50

1.5/1.1KWHP, 1460RPM, 1PH, 50HZ, 56C, 3546LC

Class - None

Division - Not Applicable

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 HP @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ 220.0 V @ 50 HZ
Agency Approvals	C UR US CE CURUS UKCA WEEE
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	7.700 A @ 220.0 V 15.400 A @ 110.0 V
Design Code	L
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

Part Detail

Revision	A
Type	AC
Mech. spec.	35E022
Base	
Status	PRD/A
Elec. spec.	35WGF522
Layout	35LYE022
Eff. date	09-30-2026
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	04-20-2026

Heater Indicator	No Heater
High Voltage Full Load Amps	7.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3546LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.48 IN
Power Factor	79
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	1460 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.	35E022F522										
HP	1.5/1.1KW										
VOLTS	110/220										
AMP	15.4/7.7										
R.P.M. (1/MIN)	1460										
FRAME	56C		HZ		50		PH		1		
SER.F.	1.15	CODE	K	DES	L	CL	F				
NEMA-NOM-EFF	81.4	PF	79								
RATING	40C AMB-S1 CONT										
CC			IP44 IC411 35KG								
DE	6205		ODE		6203						
ENCL	TEFC	SN									
	IE2 80.6(75%) 75.6(50%)										

AC Induction Motor Performance Data

Record # 116193

Typical performance - not guaranteed values

Winding: 35WGF522-R001			Type: 3546LC		Enclosure: TEFC			
Nameplate Data			110 V, 50 Hz: Low Voltage Connection					
Rated Output (HP)		1.5	Full Load Torque		5.337 LB-FT			
Volts		110/220	Start Configuration		direct on line			
Full Load Amps		15.4/7.7	Breakdown Torque		17.6 LB-FT			
R.P.M.		1460	Pull-up Torque		10.5 LB-FT			
Hz	50	Phase	1	Locked-rotor Torque		13.2 LB-FT		
NEMA Design Code		L	KVA Code	K	Starting Current		117 A	
Service Factor (S.F.)		1.15	No-load Current		9.96 A			
NEMA Nom. Eff.		81.4	Power Factor		79	Line-line Res. @ 25°C		0.36601 Ω A Ph 2.2289 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		67°C	
S.F. Amps					Temp. Rise @ S.F. Load		78°C	

Load Characteristics 110 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	59	71	80	85	88	83
Efficiency	59.2	75.6	80.6	82	81.7	80.3	81.8
Speed	1490.1	1482.1	1473.7	1464	1453.8	1440.8	1458
Line amperes	10.3	11.3	13.2	15.4	18.1	21.5	17

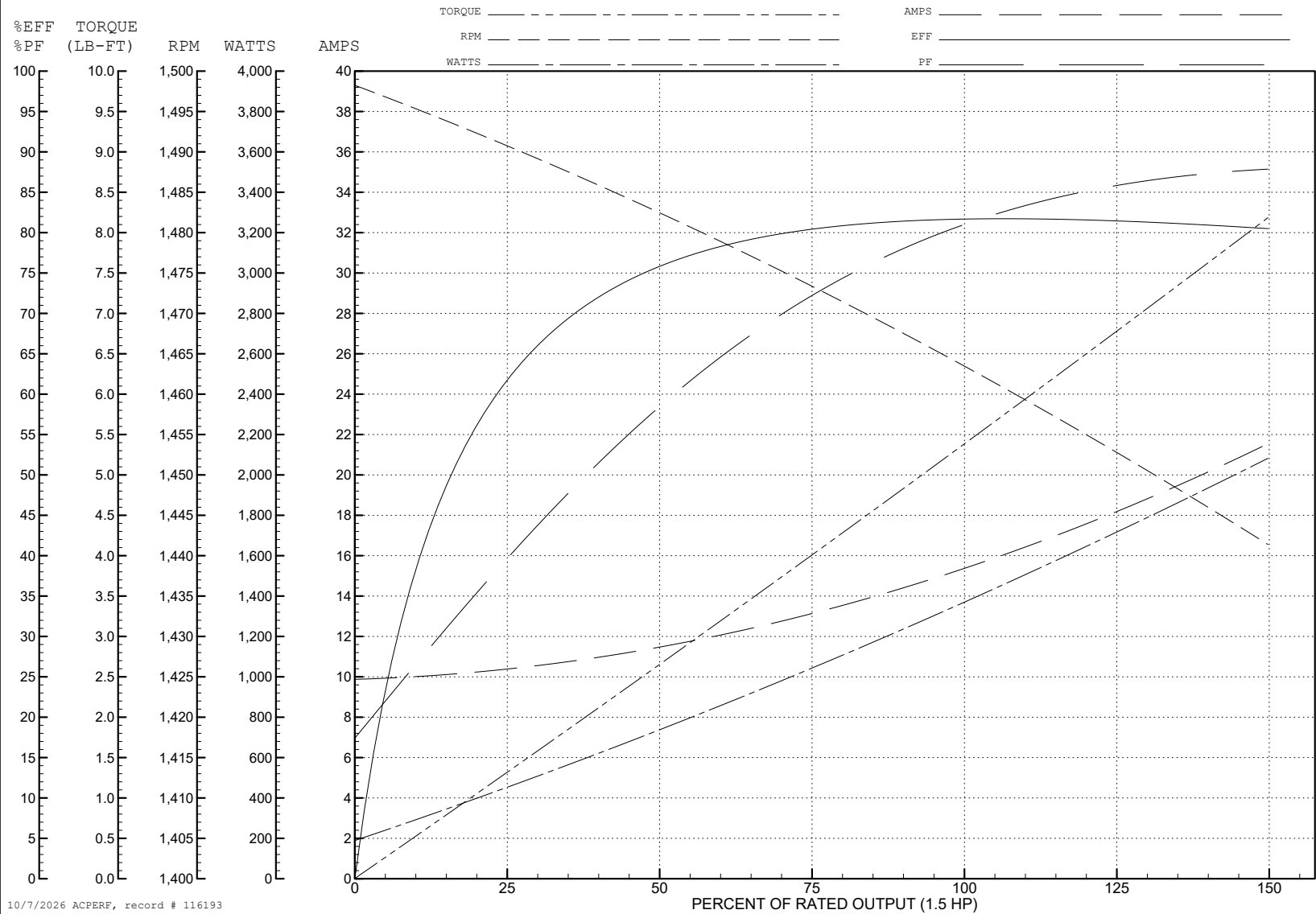
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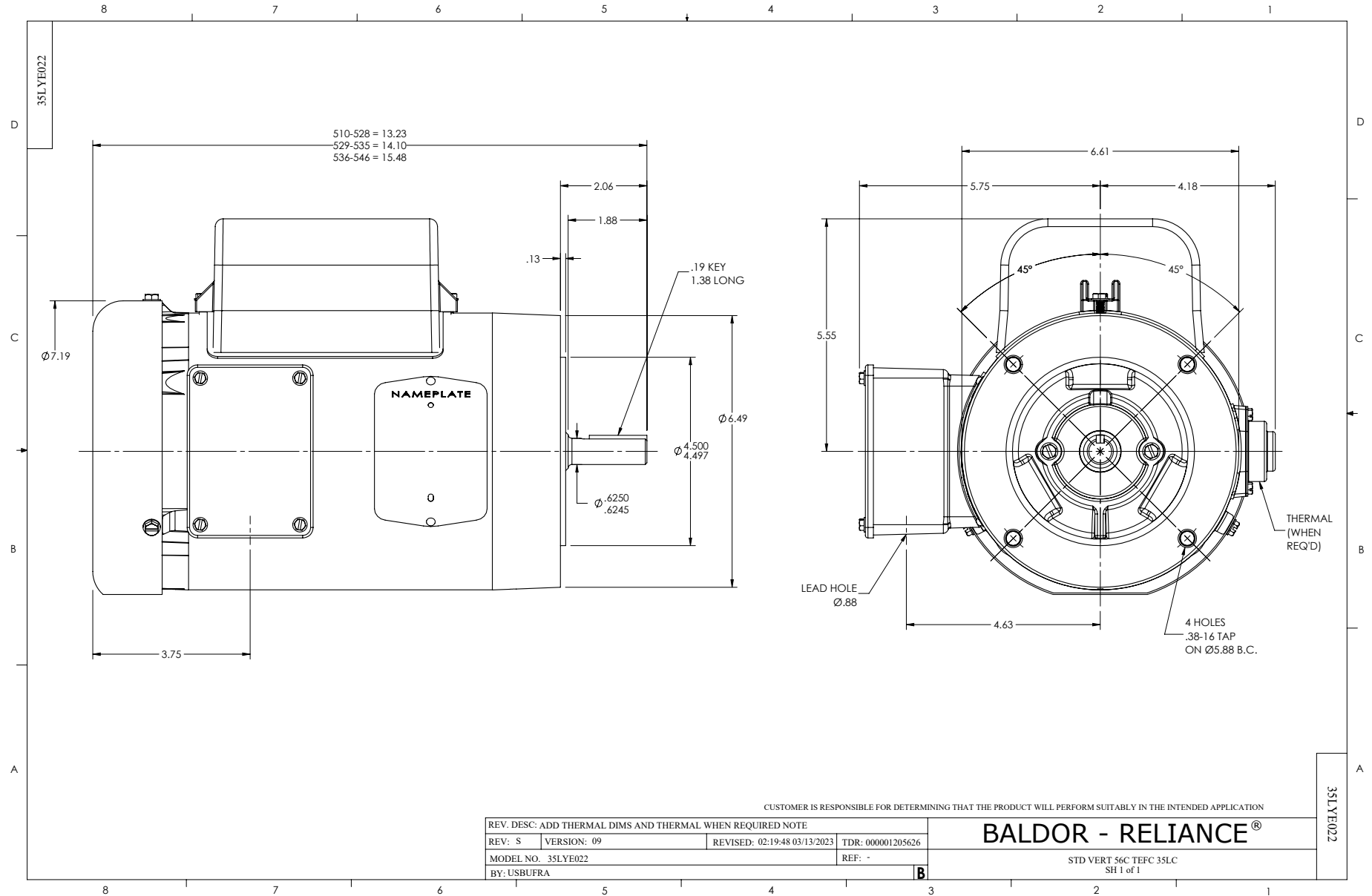
WINDING # 35WGF522

Typical performance - not guaranteed values.

1.5 HP 1 PH 50 HZ 1460 RPM 110 V 3546LC

TORQUES (LB-FT): PO=17.6 PU=10.5 LR=13.2 LRA=117





CD0055

