

ABB BALDOR RELIANCE III

Customer information packet

L1307-50

.75/.56KW, 1450RPM, 1PH, 50HZ, 56, 3524LC, OPE

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56
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	.550 KW @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	220.0 V @ 50 HZ 110.0 V @ 50 HZ
Agency Approvals	CE CURUS UKCA WEEE C U R U S
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.500 A @ 220.0 V 7.000 A @ 110.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	G
Type	AC
Mech. spec.	35M497
Base	
Status	PRD/A
Elec. spec.	35WGG603
Layout	35LYM497
Eff. date	02-13-2025
CD Diagram	CD0055
Poles	04
Leads	4#16 A PH,2#18 B PH
Proprietary	False
Created date	02-20-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.07 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1450 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
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Nameplate

NP1372L											
CAT.NO.	L1307-50										
SPEC.	35M497G603G1										
HP	.75/.56KW										
VOLTS	110/220										
AMP	7/3.5										
R.P.M. (1/MIN)	1450										
FRAME	56		HZ		50		PH		1		
SER.F.	1.25	CODE		H	DES	-	CL	F			
NEMA-NOM-EFF	77.1	PF		92							
RATING	40C AMB-S1 CONT										
CC			IP22 KG18 IC01								
DE	6205		ODE		6203						
ENCL	OPEN	SN									
	SFA 8.6/4.3										

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 101567

Typical performance - not guaranteed values

Winding: 35WGG603-R001			Type: 3524LC		Enclosure: OPEN			
Nameplate Data			220 V, 50 Hz: High Voltage Connection					
Rated Output (KW)		.55	Full Load Torque		2.701 LB-FT			
Volts		110/220	Start Configuration		direct on line			
Full Load Amps		7/3.5	Breakdown Torque		7.59 LB-FT			
R.P.M.		1450	Pull-up Torque		6 LB-FT			
Hz	50	Phase	1	Locked-rotor Torque		7.56 LB-FT		
NEMA Design Code		-	KVA Code	H	Starting Current		21.6 A	
Service Factor (S.F.)		1.25		No-load Current		1.62 A		
NEMA Nom. Eff.		77.1	Power Factor		92	Line-line Res. @ 25°C		3.9889 Ω A Ph 2.2339 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		35°C		
S.F. Amps		8.6/4.3		Temp. Rise @ S.F. Load		44°C		

Load Characteristics 220 V, 50 Hz, 0.55 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	68	82	88	92	94	95	94
Efficiency	54.2	70.6	77.1	79.4	79.1	77.4	79.1
Speed	1486.5	1476.1	1464.4	1451	1435.5	1416.7	1436
Line amperes	1.8	2.23	2.8	3.46	4.23	5.11	4.23

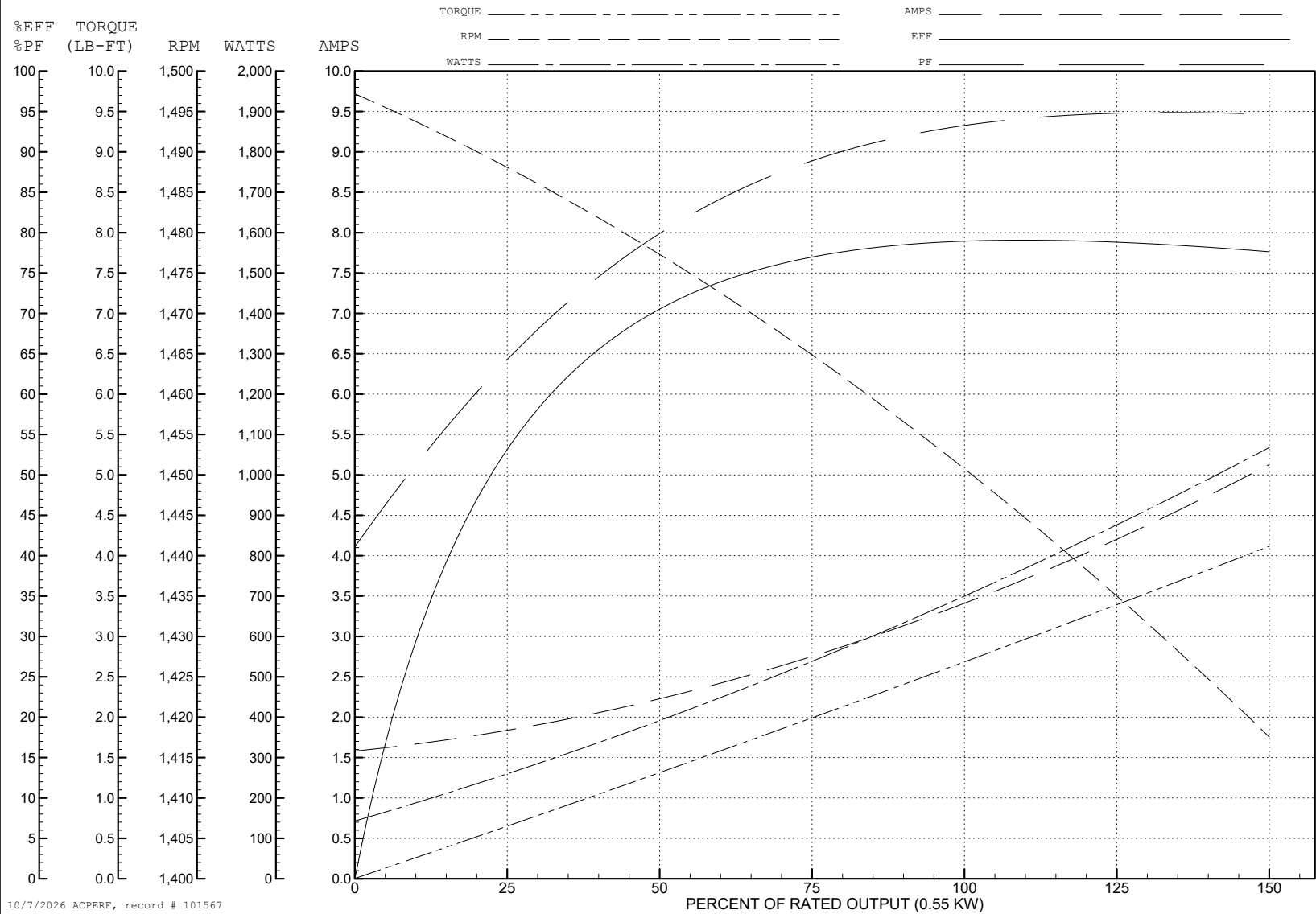
ABB Motors and Mechanical Inc.

WINDING # 35WGG603

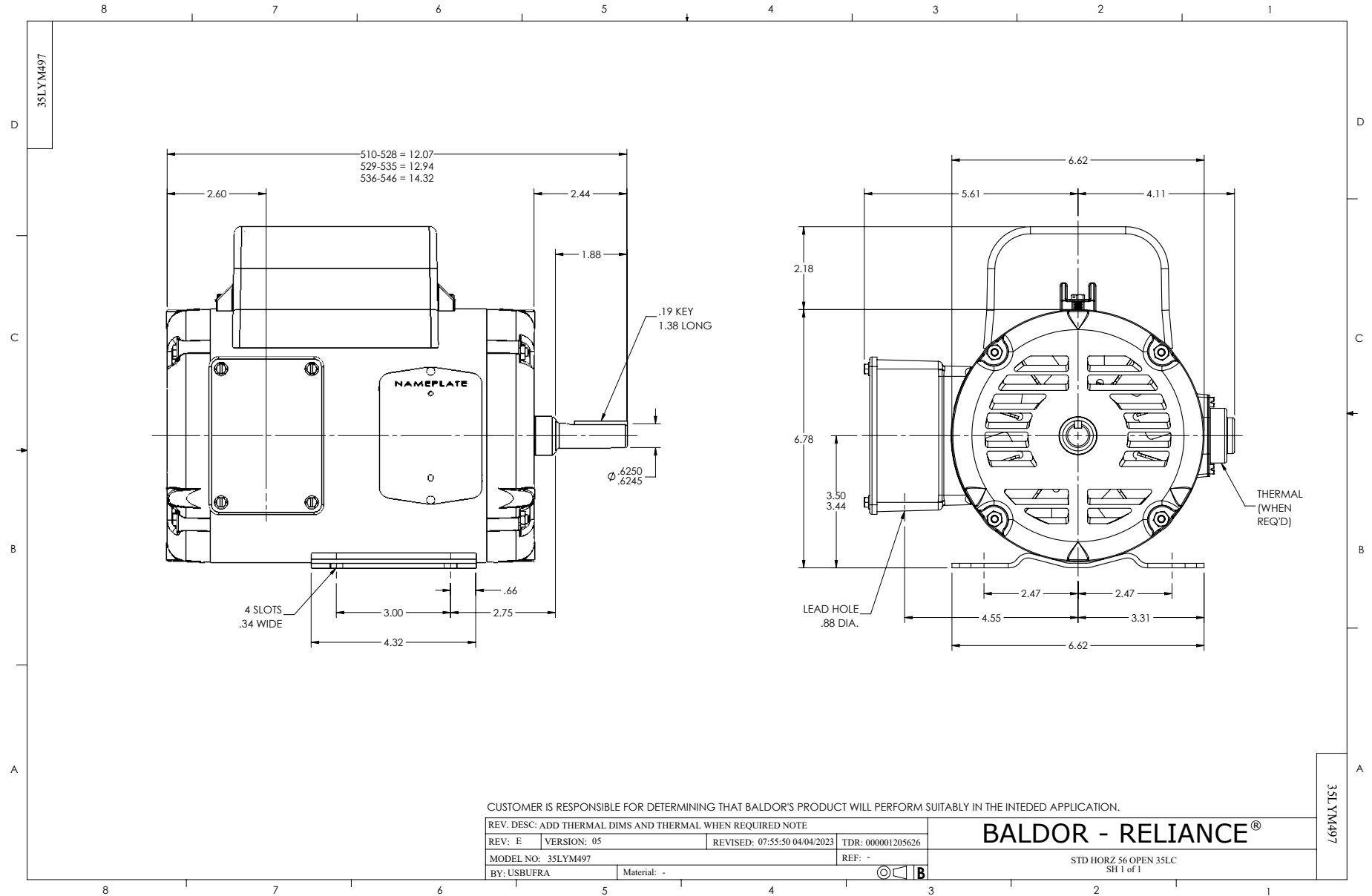
Typical performance - not guaranteed values.

0.55 KW 1 PH 50 HZ 1450 RPM 220 V 3524LC

TORQUES (LB-FT) : PO=7.59 PU=6 LR=7.56 LRA=21.6



10/7/2026 ACPERF, record # 101567



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