

ABB BALDOR RELIANCE III

Customer information packet

L3513-50

1.5/1.1KWHP, 2910RPM, 1PH, 50HZ, 56, 3530LC, T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	1.500 HP @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	3000 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.500 A @ 220.0 V 13.000 A @ 110.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	79.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	-
Type	AC
Mech. spec.	35E008
Base	
Status	PRD/A
Elec. spec.	35WGK257
Layout	35LYE008
Eff. date	04-20-2026
CD Diagram	CD0055
Poles	02
Leads	6#18
Proprietary	False
Created date	04-17-2026

Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.10 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	2910 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.	L3513-50								
SPEC.	35E008K257G1								
HP	1.5/1.1KW								
VOLTS	110/220								
AMP	13/6.5								
R.P.M. (1/MIN)	2910								
FRAME	56	HZ		50			PH	1	
SER.F.	1.15	CODE	J	DES	L	CL	F		
NEMA-NOM-EFF	79.6	PF	96						
RATING	40C AMB-S1 CONT								
CC			IP44 IC411 30KG						
DE	6205		ODE	6203					
ENCL	TEFC	SN							
	IE2-50HZ 81.3(75%) 77.0(50%)								

Parts List

Part number	Description	Quantity
SA447251	SA 35E008K257G1	1.000 ea
RA439856	RA 35E008K257G1	1.000 ea
OC3060F10SP	CYL OIL CAP 60MFD/370V	1.000 ea
EC1645A06SP	ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3123A00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A32	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 ea

HA3100A22	THRUBOLT 10-32 X 10.125	4.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
SP5181A01	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1372L	ALUM UL CE UKCA WEEE CC, A60	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 103731

Typical performance - not guaranteed values

Winding: 35WGK257-R001			Type: 3530LC		Enclosure: TEFC		
Nameplate Data			110 V, 50 Hz: Low Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		2.71 LB-FT		
Volts		110/220	Start Configuration		direct on line		
Full Load Amps		13/6.5	Breakdown Torque		8 LB-FT		
R.P.M.		2910	Pull-up Torque		6.2 LB-FT		
Hz	50	Phase	1	Locked-rotor Torque		9 LB-FT	
NEMA Design Code		L	KVA Code	J	Starting Current		107 A
Service Factor (S.F.)		1.15	No-load Current		3.1 A		
NEMA Nom. Eff.		79.6	Power Factor	96	Line-line Res. @ 25°C		0.319 Ω A Ph 1.59 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		43°C
S.F. Amps					Temp. Rise @ S.F. Load		51°C
					Locked-rotor Power Factor		84.3
					Rotor inertia		0.0645 lb-ft²

Load Characteristics 110 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	87	93	95	96	97	96	97
Efficiency	64.9	77	81.3	82	81.3	79.3	81.6
Speed	2976	2956	2933	2908	2880	2845	2891
Line amperes	4.67	7.09	9.89	12.89	16.21	19.97	14.9

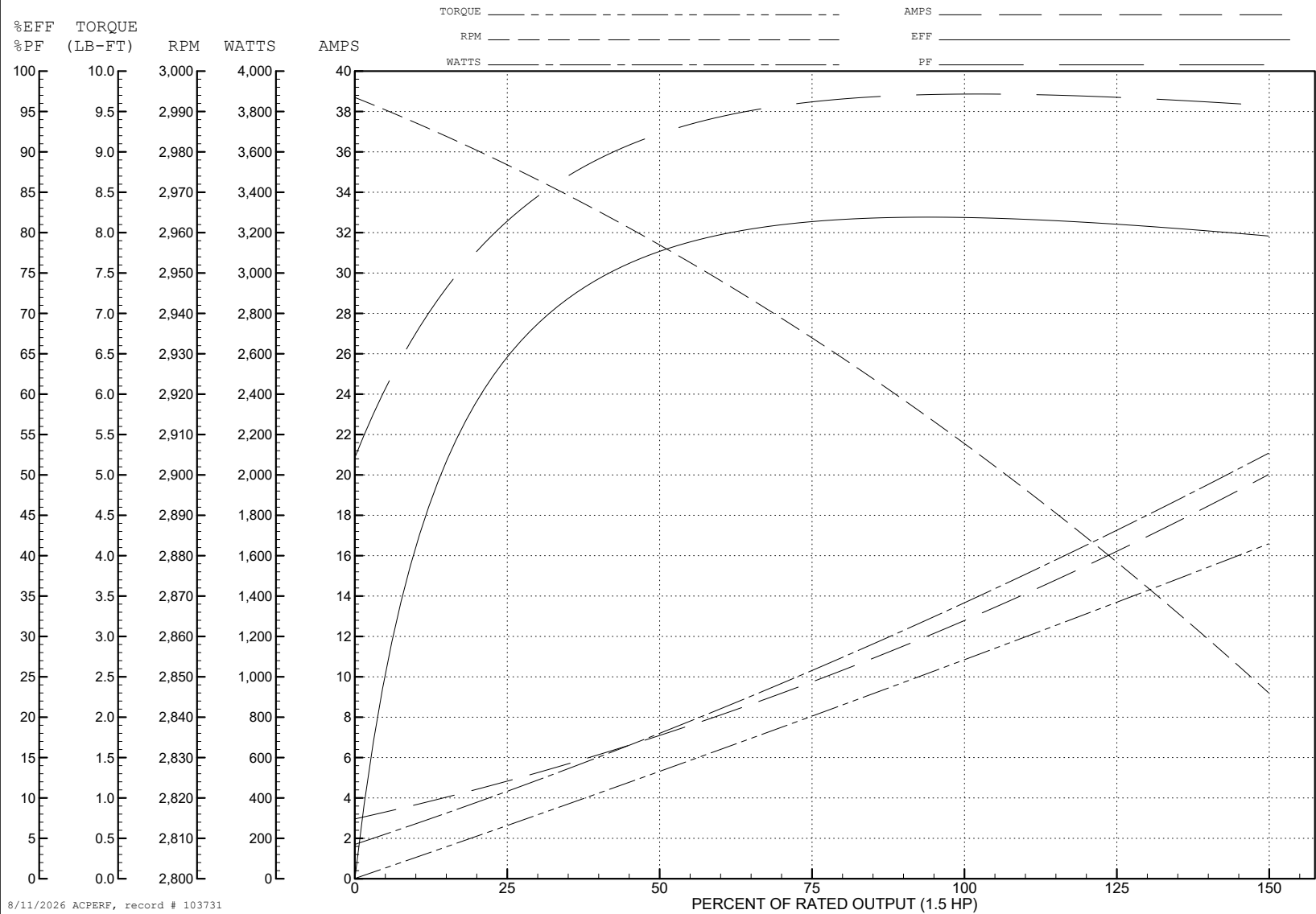
ABB Motors and Mechanical Inc.

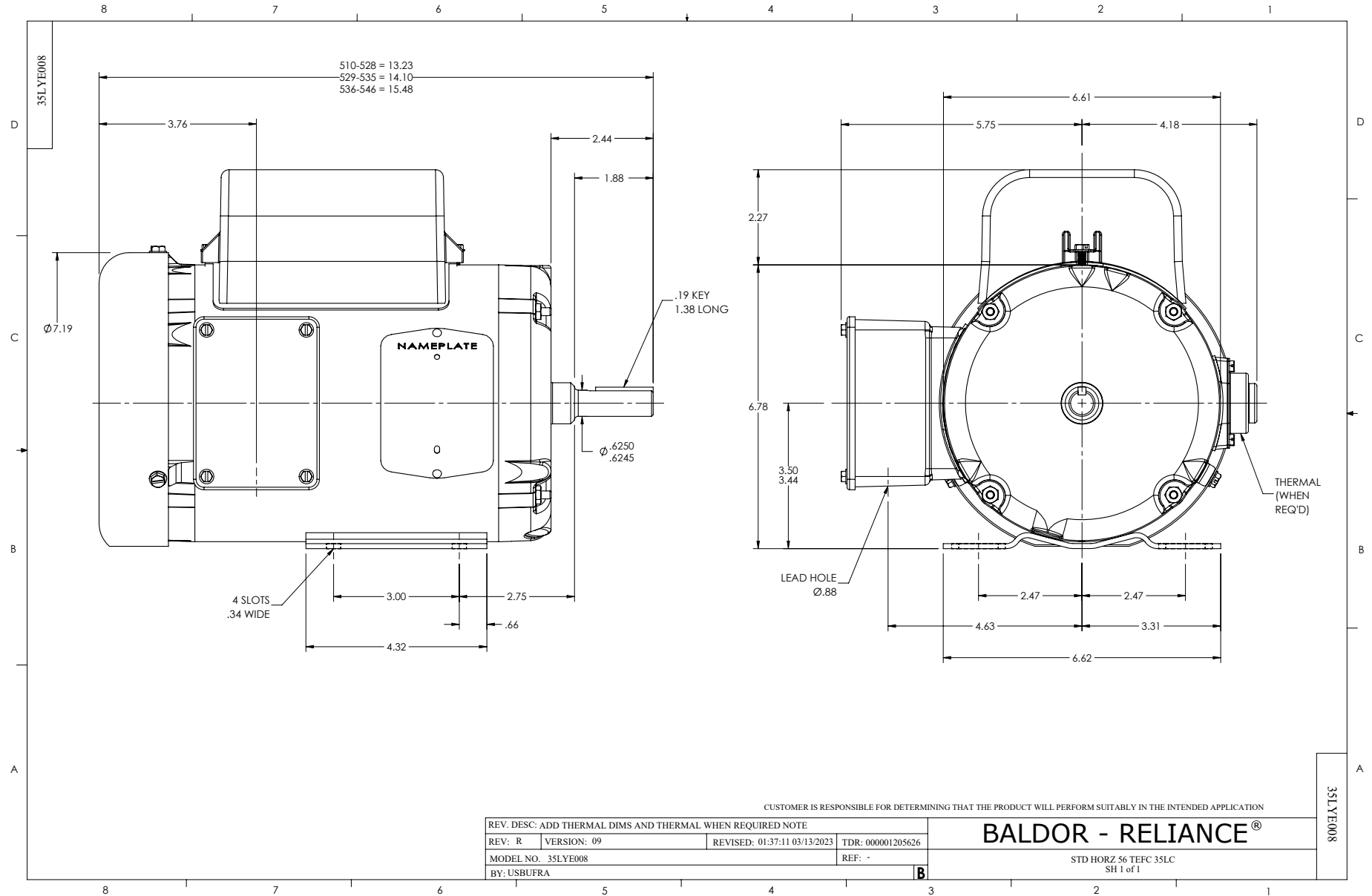
WINDING # 35WGK257

Typical performance - not guaranteed values.

1.5 HP 1 PH 50 HZ 2910 RPM 110 V 3530LC

TORQUES (LB-FT) : PO=8 PU=6.2 LR=9 LRA=107





CD0055

