

ABB BALDOR RELIANCE III

Customer information packet

VL3505

.5HP, 1145RPM, 1PH, 60HZ, 56C, 3526L, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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	4.000 A @ 230.0 V 8.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	D
Type	AC
Mech. spec.	35C013
Base	
Status	PRD/A
Elec. spec.	35WGG379
Layout	35LYC013
Eff. date	12-17-2024
CD Diagram	CD0001
Poles	06
Leads	6#18
Proprietary	False
Created date	02-23-2023

IP Rating	NONE
KVA Code	F
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	3526L
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.23 IN
Power Factor	70
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	1145 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

NP1256L									
CAT.NO.	VL3505								
SPEC.	35C013G379G1								
HP	.5								
VOLTS	115/230								
AMP	8/4								
RPM	1145								
FRAME	56C		HZ	60			PH	1	
SER.F.	1.25	CODE	F	DES	N	CLASS	F		
NEMA-NOM-EFF	62	PF	70						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							
	SFA 8.8/4.4								

Parts List

Part number	Description	Quantity
SA414879	SA 35C013G379G1	1.000 ea
RA406648	RA 35C013G379G1	1.000 ea
EC1460A03	ELEC CAP 115V 1.8 X 3.3 CK - WESTVILLE	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
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 ea
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 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
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	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
SP5051A24	MODEL 35 TORQ STATIONARY SWITCH FOR "L"	1.000 ea
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea

NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 91089

Preliminary Data Sheet

Winding: 35WGG379-R002			Type: 3526L		Enclosure: TEFC		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		2.27 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		8/4	Breakdown Torque		4.64 LB-FT		
R.P.M.		1145	Pull-up Torque		5.21 LB-FT		
Hz	60 Phase	1	Locked-rotor Torque		9.35 LB-FT		
NEMA Design Code		N	KVA Code		F	Starting Current	28.22 A
Service Factor (S.F.)		1.25	No-load Current		6.12 A		
NEMA Nom. Eff.		62	Power Factor		70	Line-line Res. @ 25°C	1.65 Ω A Ph 1.71 Ω B Ph
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		61°C		
S.F. Amps		8.8/4.4	Temp. Rise @ S.F. Load		75°C		
			Locked-rotor Power Factor		100		
			Rotor inertia		0.188 lb-ft²		

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	45	55	63	70	75	70
Efficiency	41.2	56.2	63.3	65.7	65.6	62.5	65.6
Speed	1189	1180	1171	1159	1146	1125	1146
Line amperes	6.09	6.45	7.03	7.83	8.84	10.39	8.84

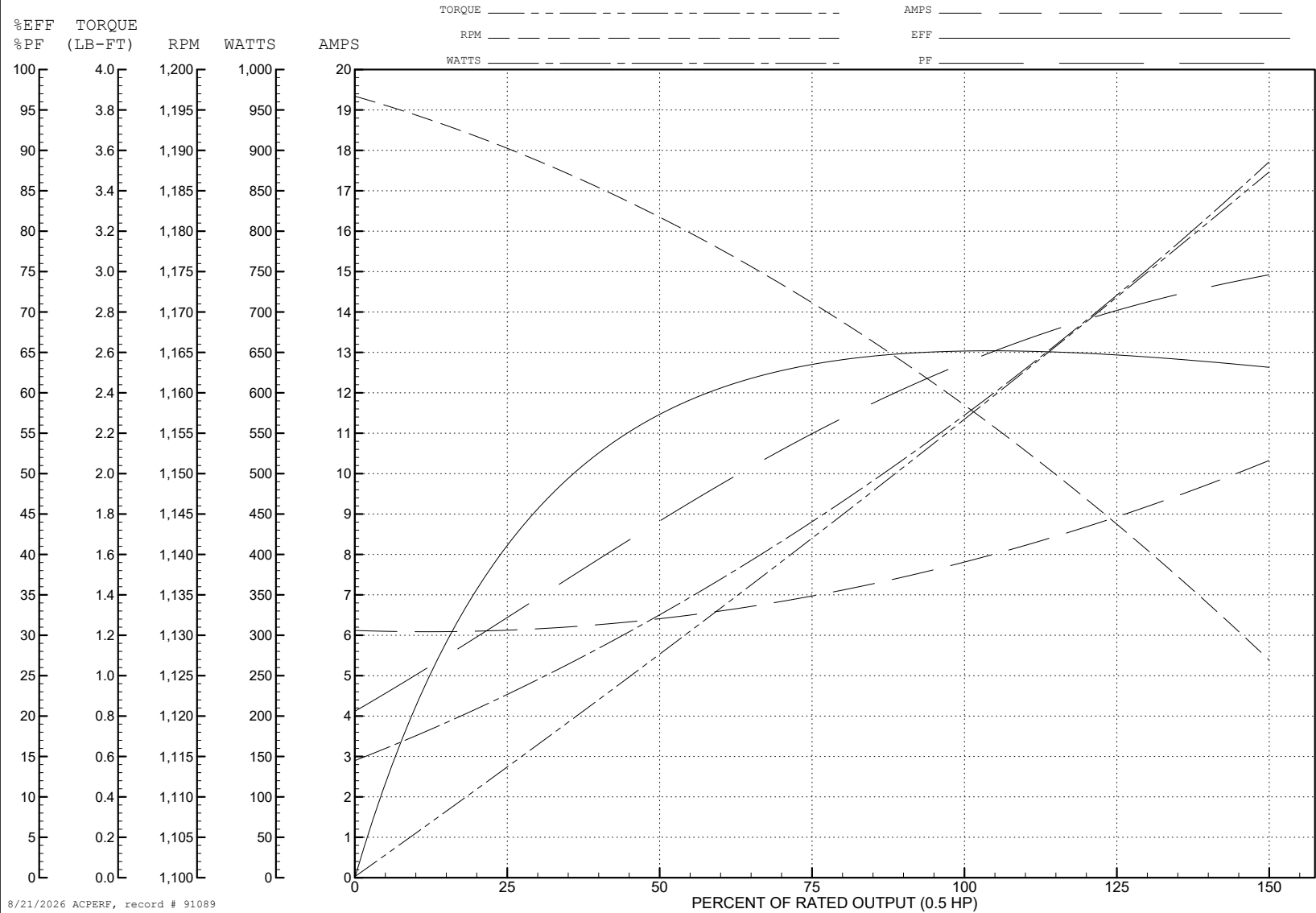
ABB Motors and Mechanical Inc.

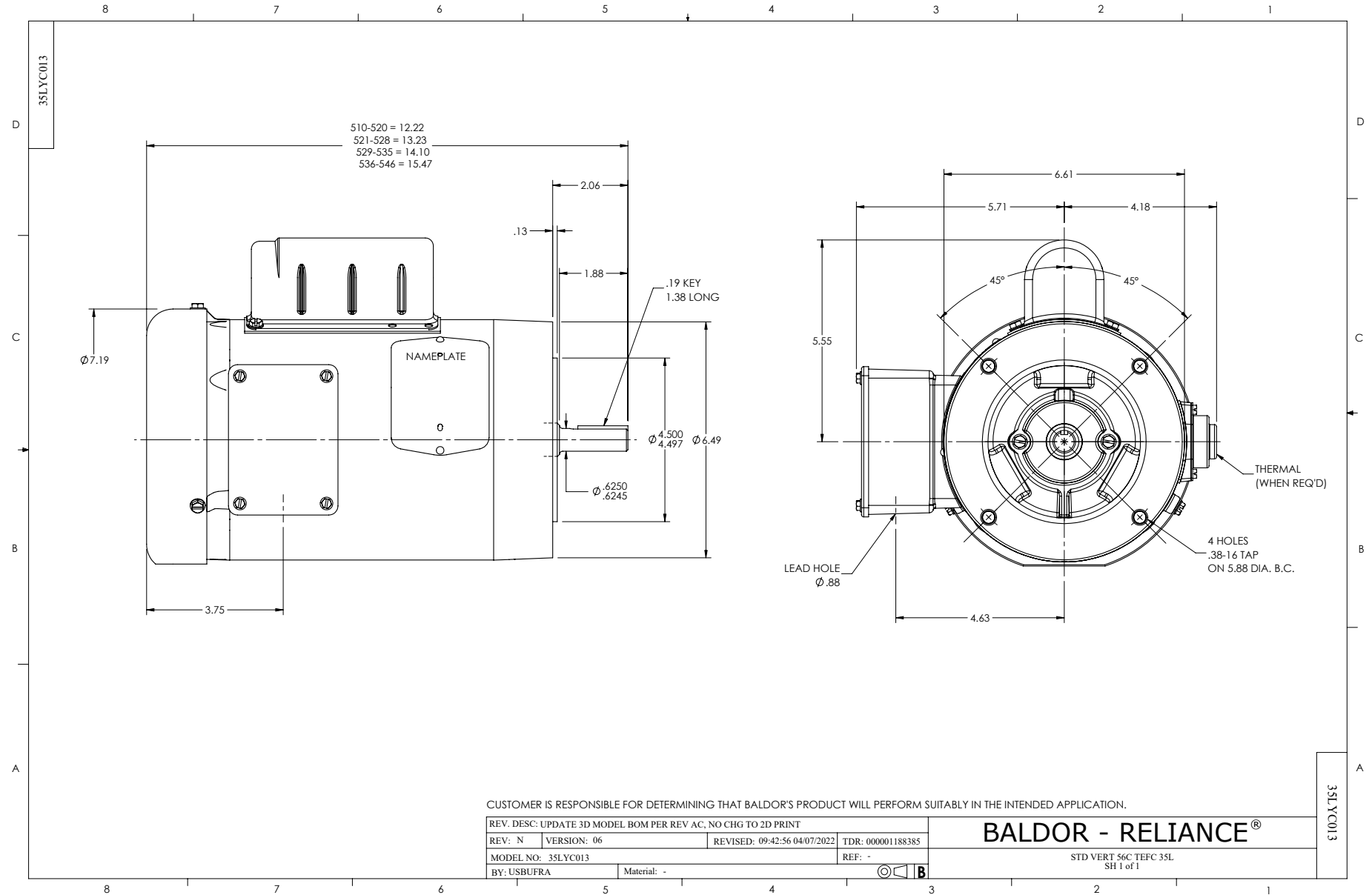
WINDING # 35WGG379

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1145 RPM 115 V 3526L

TORQUES (LB-FT) : PO=4.64 PU=5.21 LR=9.35 LRA=28.22





CD0001

