

ABB BALDOR RELIANCE III

Customer information packet

L1313T

1.5HP, 3450RPM, 1PH, 60HZ, 143T, 3520L, OPEN

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	143T
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	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUS C UR US
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	17.800 A @ 115.0 V 8.900 A @ 230.0 V 9.300 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	V
Type	AC
Mech. spec.	35T876
Base	
Status	PRD/A
Elec. spec.	35WGX958
Layout	35LYT876
Eff. date	05-07-2024
CD Diagram	CD0001
Poles	02
Leads	4#16 A PH,2#18 B PH
Proprietary	False
Created date	06-22-2007

High Voltage Full Load Amps	8.9 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.13 IN
Power Factor	78
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	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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.	L1313T								
SPEC.	35T876X958								
HP	1.5								
VOLTS	115/230								
AMP	17.8/8.9								
RPM	3450								
FRAME	143T		HZ	60			PH	1	
SER.F.	1.15	CODE	J	DES	L	CLASS	B		
NEMA-NOM-EFF	70	PF	78						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	OPEN	SN							

Parts List

Part number	Description	Quantity
SA107732	SA 35T876X958	1.000 ea
RA099334	RA 35T876X958	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
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
35EP3209A00	MASTER ODE,203 BRG,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
SP1006A01	INSULATOR MODEL 35 SWITCH	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
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3210A00	MASTER DE,205 BRG,1.000SH,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	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
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
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
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 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
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

Accessories

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

AC Induction Motor Performance Data

Record # 10112

Typical performance - not guaranteed values

Winding: 35WGX958-R001				Type: 3520L		Enclosure: OPEN	
Nameplate Data				230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5		Full Load Torque		2.25 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		17.8/8.9		Breakdown Torque		6.1 LB-FT	
R.P.M.		3450		Pull-up Torque		5.1 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		5.4 LB-FT	
NEMA Design Code		L	KVA Code	J	Starting Current		46 A
Service Factor (S.F.)		1.15		No-load Current		5.7 A	
NEMA Nom. Eff.		70	Power Factor	78	Line-line Res. @ 25°C		1.49 Ω A Ph 1.33 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		63°C	

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	57	69	77	82	87	80
Efficiency	53.5	66	70	70	69	66	70
Speed	3555	3520	3485	3450	3400	3355	3425
Line amperes	6	6.5	7.5	8.9	10.5	12.2	9.8

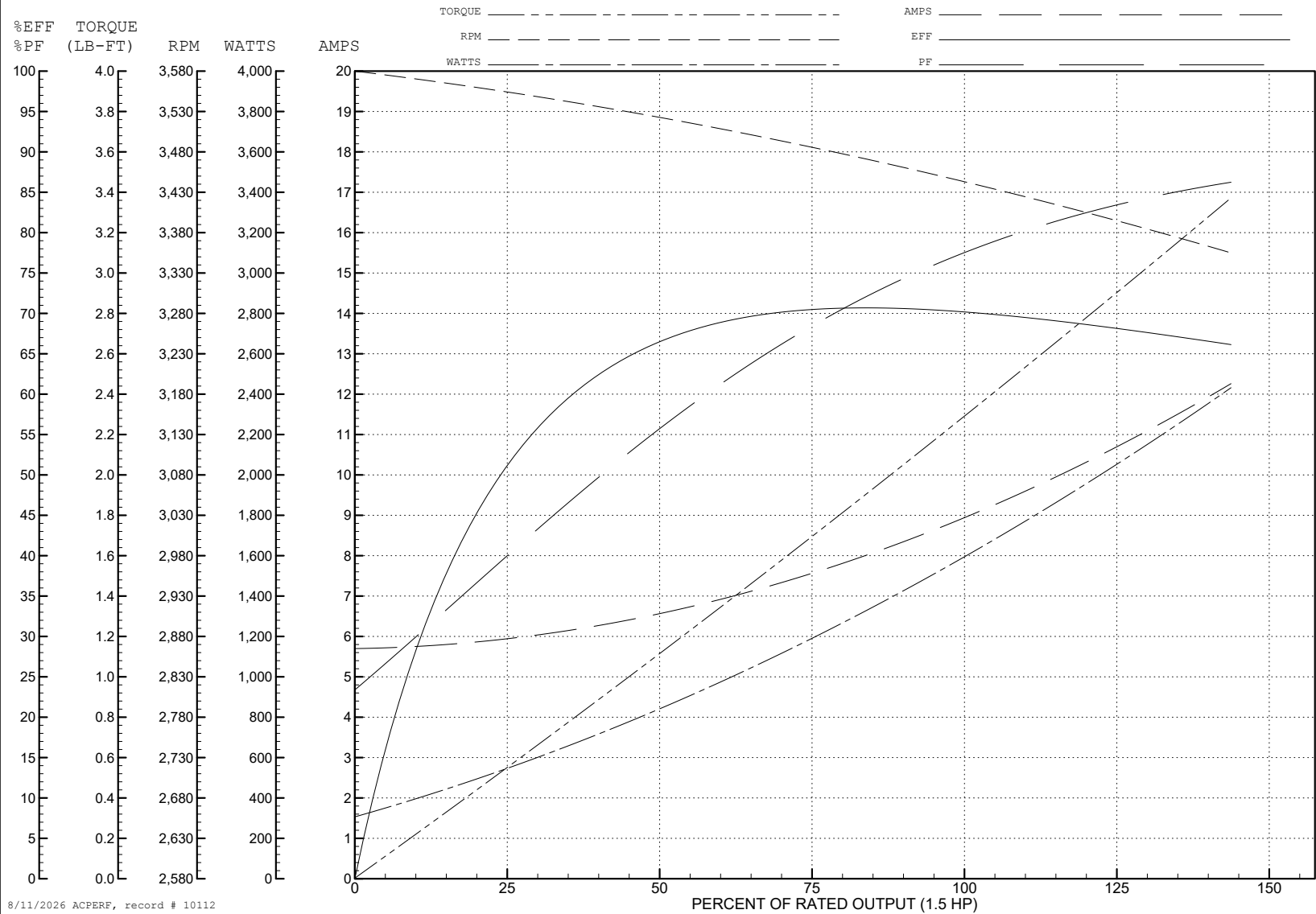
ABB Motors and Mechanical Inc.

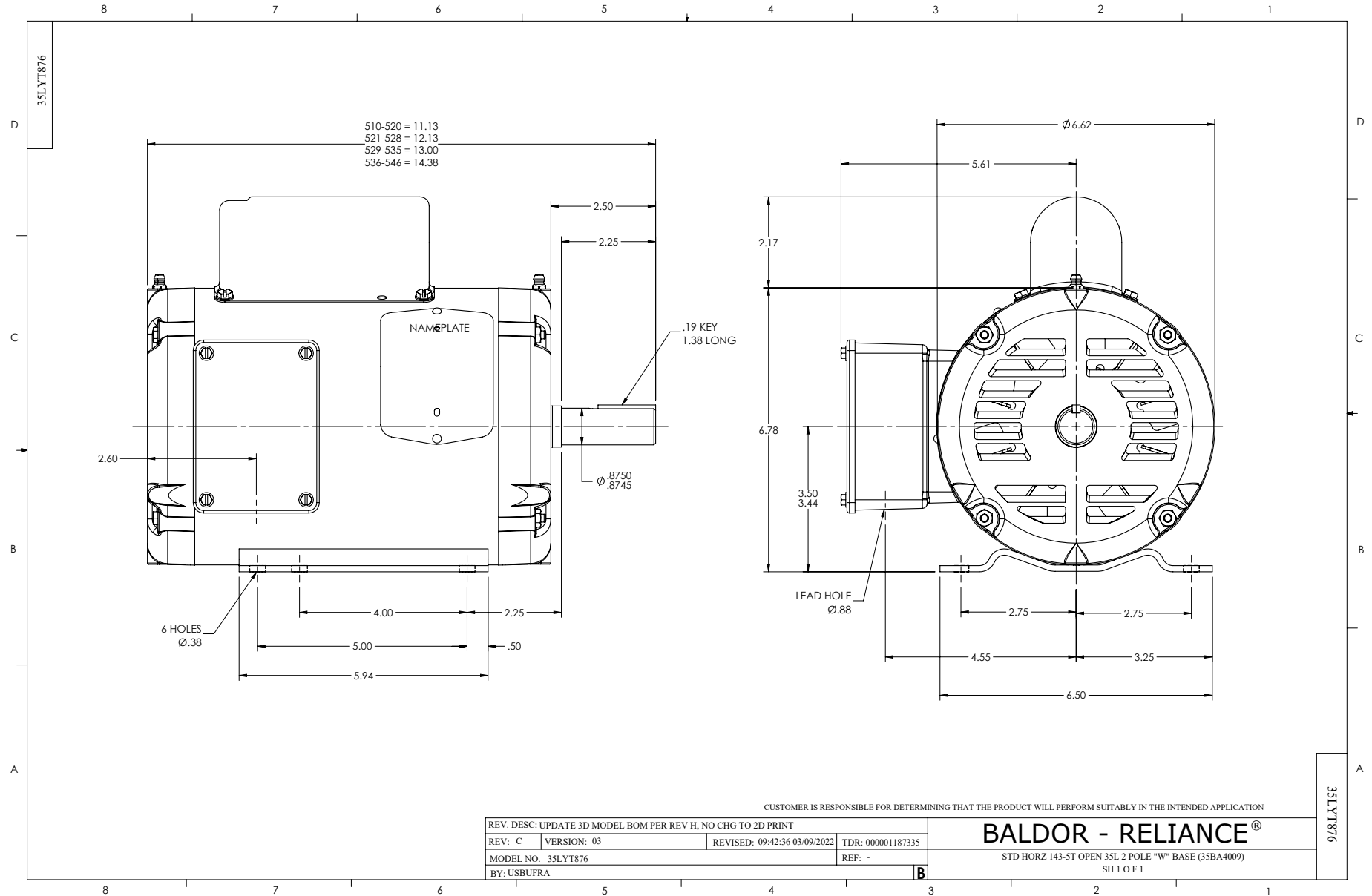
WINDING # 35WGX958

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3520L

TORQUES (LB-FT): PO=6.1 PU=5.1 LR=5.4 LRA=46





CD0001

