

ABB BALDOR RELIANCE III

Customer information packet

VBL3519-D

1HP, 1725RPM, 1PH, 60HZ, 56C, 3524L, TEFC, F3, B

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	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CE CSA
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
Brake Torque	6.0 lb-ft
Current @ Voltage	7.000 A @ 208.0 V 6.400 A @ 230.0 V 12.800 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	67.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	P
Type	AC
Mech. spec.	35X147
Base	
Status	INA/A
Elec. spec.	35WGX945
Layout	35LYX147
Eff. date	04-03-2018
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	01-29-2008

Front Face Code	Fan Housing Cover For Brake
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524L
Mounting Arrangement	F3
Number of Poles	4
Overall Length	17.29 IN
Power Factor	73
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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.	VBL3519-D								
SPEC.	35X147X945G1								
HP	1								
VOLTS	115/208-230								
AMP	12.8/7-6.4								
FRAME	56C		HZ	60			PH	1	
SER.F.	1.15	CODE	K	DES	L	CL	F		
NEMA-NOM-EFF	67	PF	73						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							
	IP44								

AC Induction Motor Performance Data

Record # 24349

Typical performance - not guaranteed values

Winding: 35WGX945-R023			Type: 3524L		Enclosure: TEFC	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1	Full Load Torque		3 LB-FT	
Volts		115/208-230	Start Configuration		direct on line	
Full Load Amps		12.8/7-6.4	Breakdown Torque		6.9 LB-FT	
R.P.M.		1725	Pull-up Torque		5.9 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		10 LB-FT
NEMA Design Code		L	KVA Code		K	
Service Factor (S.F.)		1.15	Starting Current		78 A	
NEMA Nom. Eff.		67	Power Factor		73	
Rating - Duty		40C	AMB-CONT		Line-line Res. @ 25°C	
S.F. Amps			Temp. Rise @ Rated Load		79°C	
			Temp. Rise @ S.F. Load		95°C	

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	53	67	75	81	84	79
Efficiency	52.9	67.6	70	70.3	68.6	64.9	69.3
Speed	1781	1765	1746	1726	1701	1666	1711
Line amperes	8.6	9.4	10.6	12.4	14.8	17.8	13.8

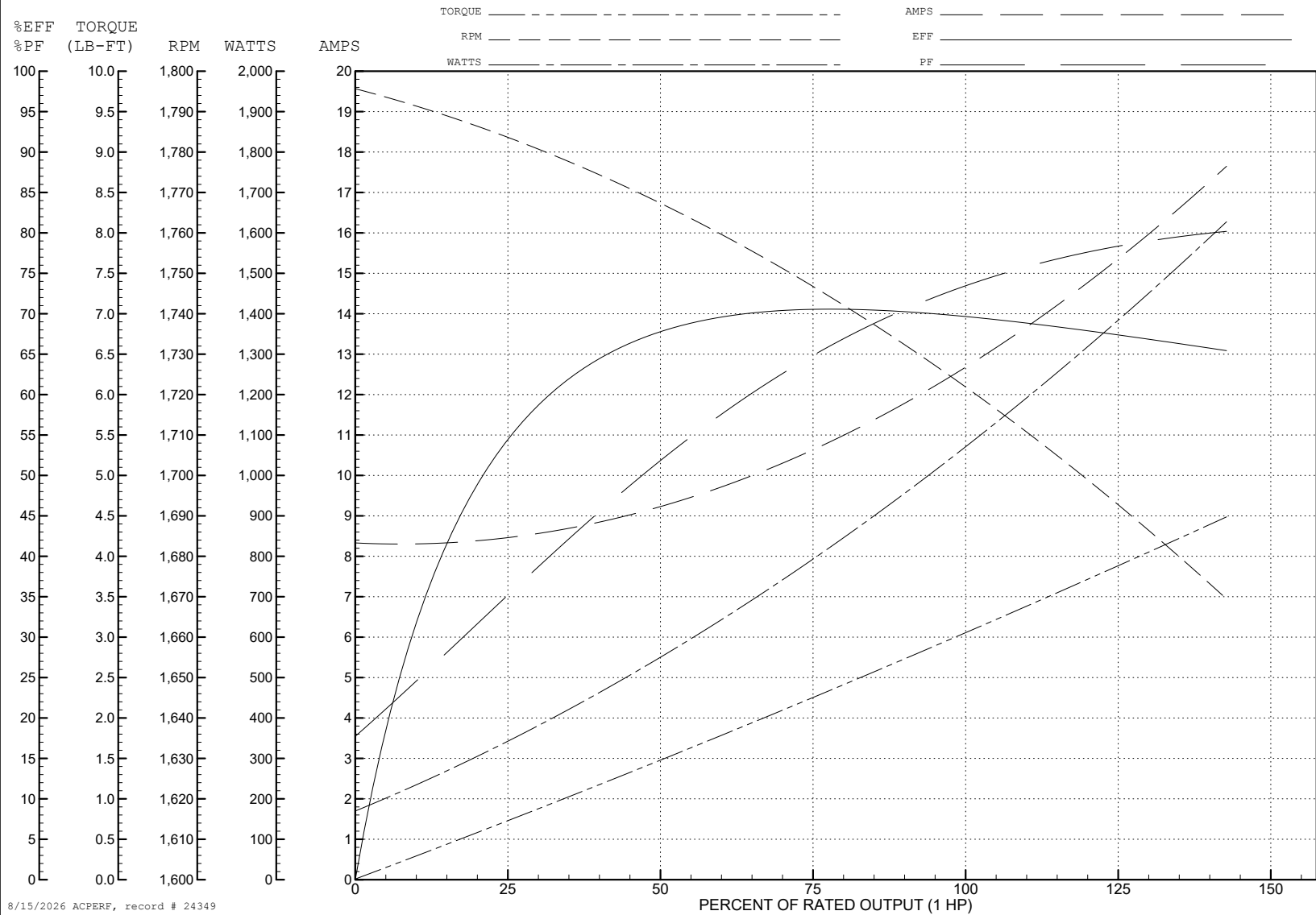
ABB Motors and Mechanical Inc.

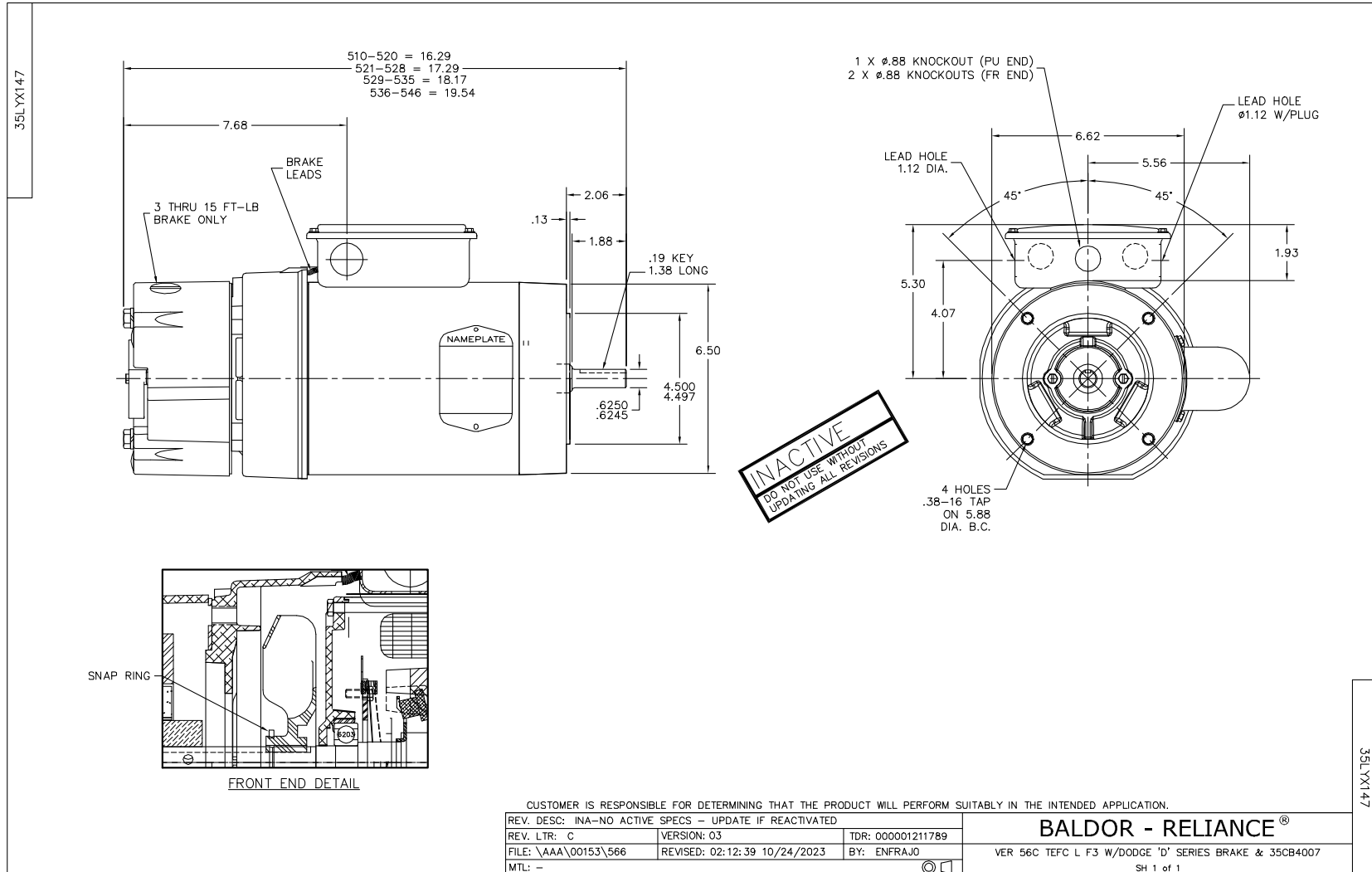
WINDING # 35WGX945

Typical performance - not guaranteed values.

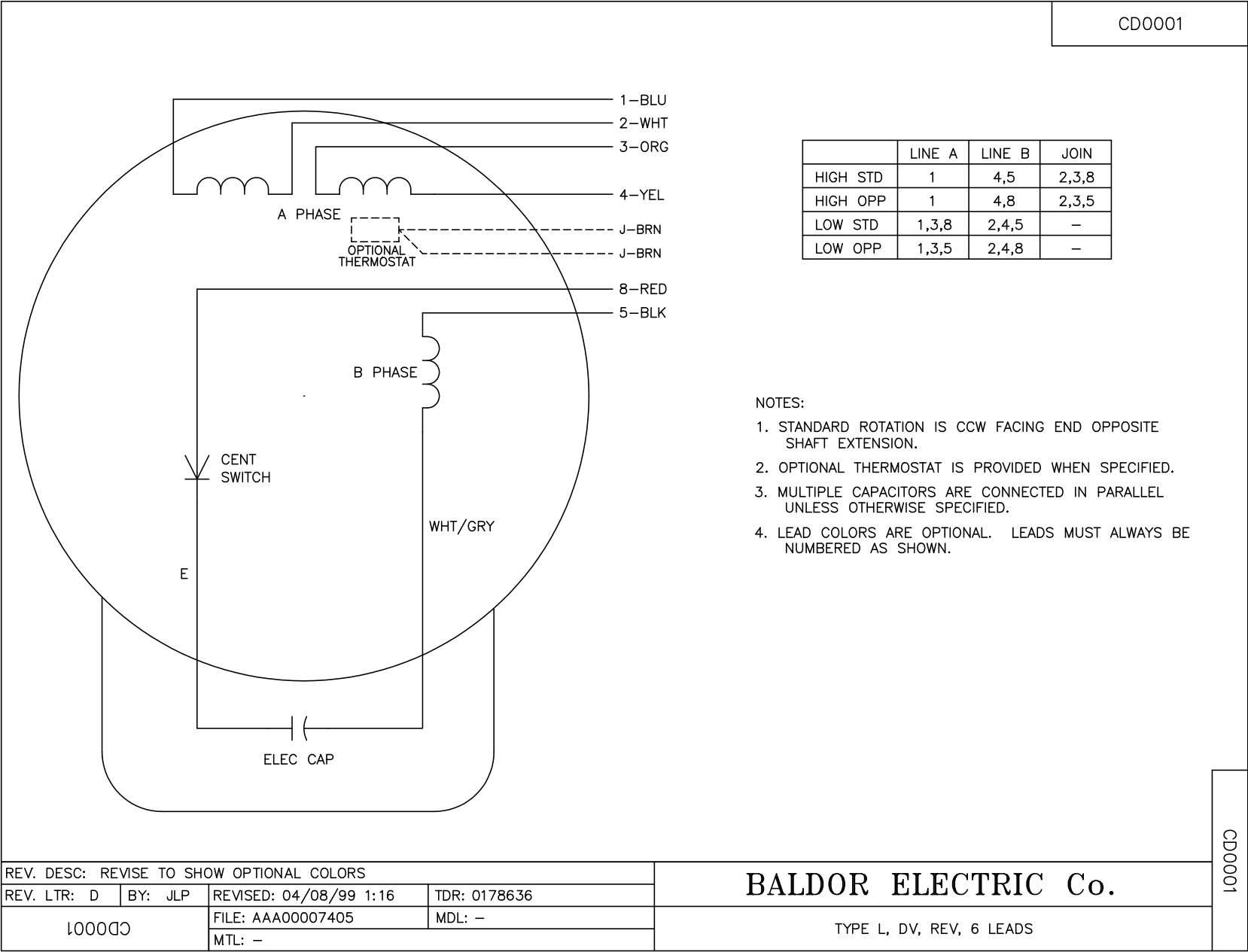
1 HP 1 PH 60 HZ 1725 RPM 115 V 3524L

TORQUES (LB-FT): PO=6.9 PU=5.9 LR=10 LRA=78





CD0001



CD2120

WIRING CONNECTIONS (1 PHASE VAC)

	POWER LINE A	POWER LINE B	CAP TOGETHER	CAP ALONE
AC LOW VOLT.	B1	B2	B3 & B5	B4
AC HIGH VOLT.	B1 & B5	B2	---	B3 CAP ALONE B4 CAP ALONE
DC VOLT.	B1	B2	B3 & B5	B4
				B1 WHITE B2 BLACK B3 GRAY B4 BLUE B5 RED

CD2120

REV. DESC: NEW		
REV. LTR: -	VERSION: 00	TDR: 000000741785
FILE: \CKA\00037\282	REVISED: 12: 28: 11 04/12/2012	
MTL: -	BY: CKRONSO	

BALDOR • DODGE • RELIANCE III
D-SERIES MOTOR BRAKE 5LD AC\DC
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