

ABB BALDOR RELIANCE III

Customer information packet

VBL3518-D

.5HP, 1725RPM, 1PH, 60HZ, 56C, 3520L, TEFC, F3

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	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	3.0 lb-ft
Current @ Voltage	7.400 A @ 115.0 V 3.700 A @ 230.0 V 3.500 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	E
Type	AC
Mech. spec.	35X147
Base	
Status	NLA/A
Elec. spec.	35WGN406
Layout	35LYX147
Eff. date	09-26-2016
CD Diagram	CD00001
Poles	04
Leads	6#18
Proprietary	False
Created date	09-17-2012

Front Face Code	Fan Housing Cover For Brake
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
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	3520L
Mounting Arrangement	F3
Number of Poles	4
Overall Length	16.29 IN
Power Factor	65
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.	VBL3518-D											
SPEC.	35X147N406G1											
HP	.5											
VOLTS	115/208-230											
AMP	7.4/3.5-3.7											
FRAME	56C		HZ		60			PH		1		
SER.F.	1.15	CODE		M	DES	N	CL	F				
NEMA-NOM-EFF	68		PF		65							
RATING	40C AMB-CONT											
CC												
DE	6205		ODE		6203							
ENCL	TEFC	SN										
	IP44											

AC Induction Motor Performance Data

Record # 39792

Typical performance - not guaranteed values

Winding: 35WGN406-R004			Type: 3520L		Enclosure: TEFC			
Nameplate Data				230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5		Full Load Torque		1.51 LB-FT		
Volts		115/208-230		Start Configuration		direct on line		
Full Load Amps		7.4/3.5-3.7		Breakdown Torque		4.62 LB-FT		
R.P.M.		1725		Pull-up Torque		3.69 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		5.49 LB-FT		
NEMA Design Code		N	KVA Code	M		Starting Current	22.6 A	
Service Factor (S.F.)		1.15		No-load Current		2.89 A		
NEMA Nom. Eff.		68	Power Factor	65		Line-line Res. @ 25°C		4.0781 Ω A Ph 2.4038 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load				

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	46	56	65	71	76	69
Efficiency	41.6	57.1	64.6	68	69	69	68.6
Speed	1783.2	1772	1759.8	1745.9	1730.5	1714.5	1737
Line amperes	2.95	3.09	3.35	3.69	4.1	4.61	3.94

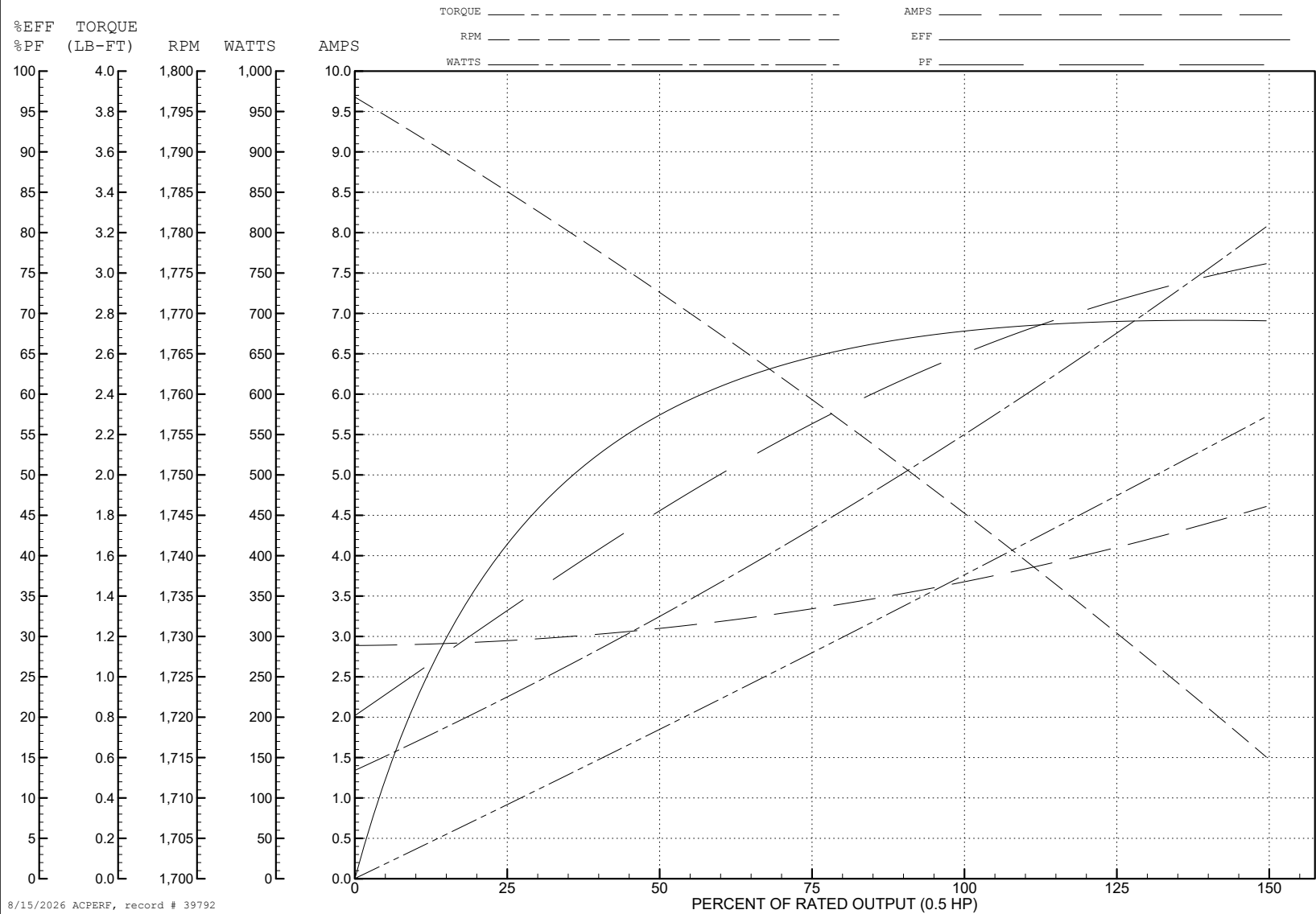
ABB Motors and Mechanical Inc.

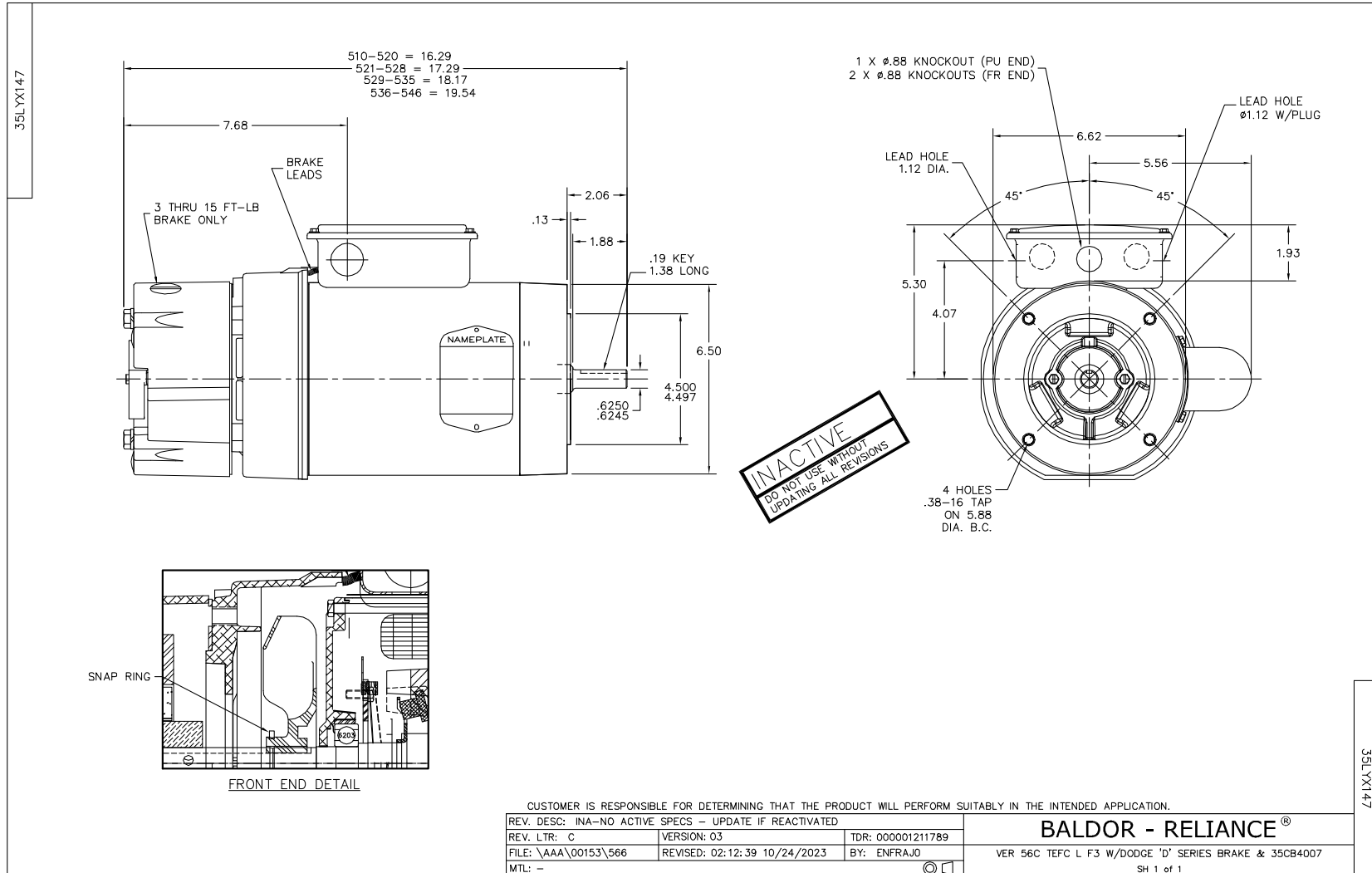
WINDING # 35WGN406

Typical performance - not guaranteed values.

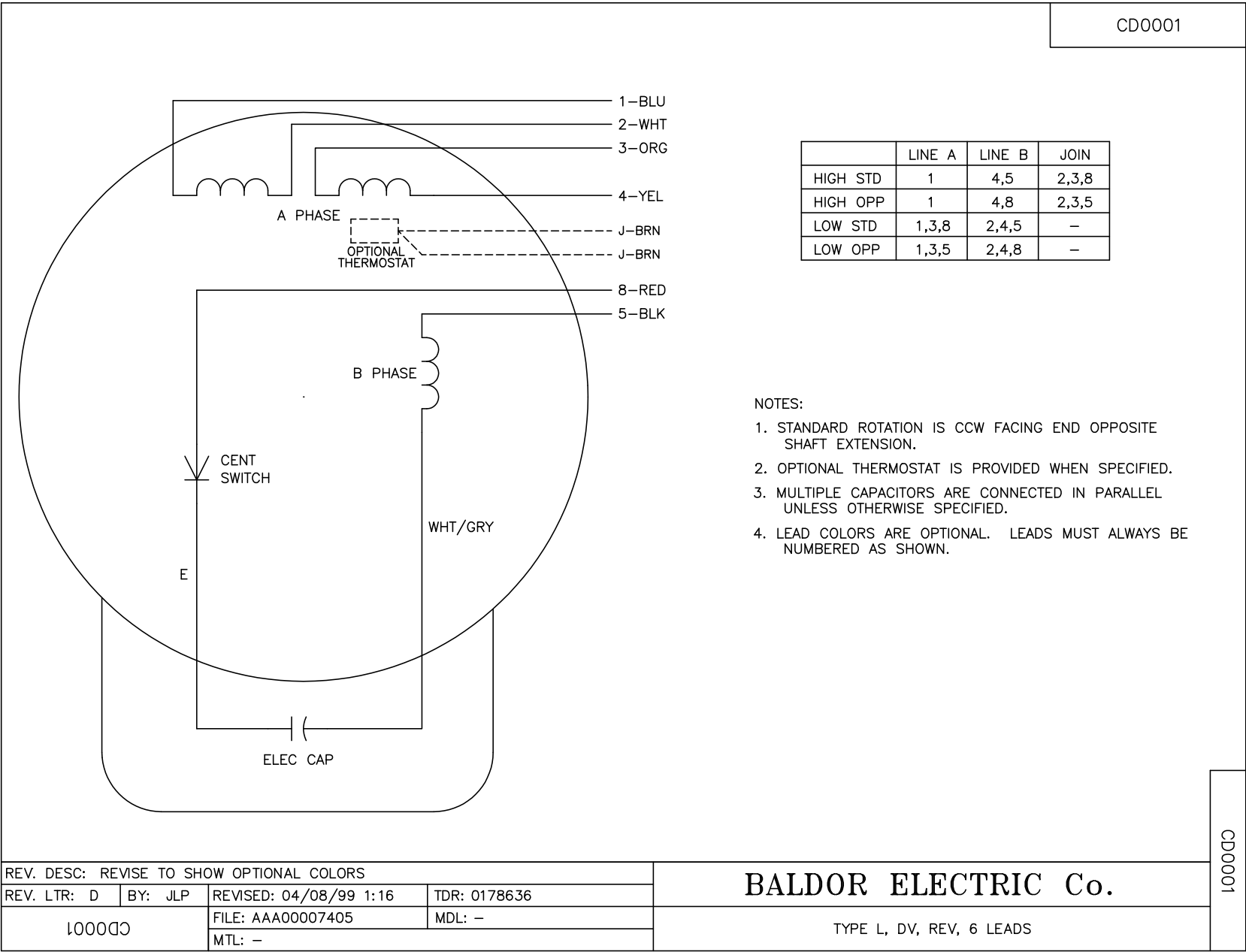
0.5 HP 1 PH 60 HZ 1725 RPM 230 V 3520L

TORQUES (LB-FT) : PO=4.62 PU=3.69 LR=5.49 LRA=22.6





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

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