Customer information packet

VBL3519-D

1HP, 1725RPM, 1PH, 60HZ, 56C, 3524L, TEFC, F3, B
Class - None
Division - Not Applicable

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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	**Starting Current**	78 A
Service Factor (S.F.)		1.15	**No-load Current**	8.2 A
NEMA Nom. Eff.	67 **Power Factor**	73	**Line-line Res. @ 25ºC**	0.65 Ω A Ph 1.8 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	79°C
S.F. Amps			**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

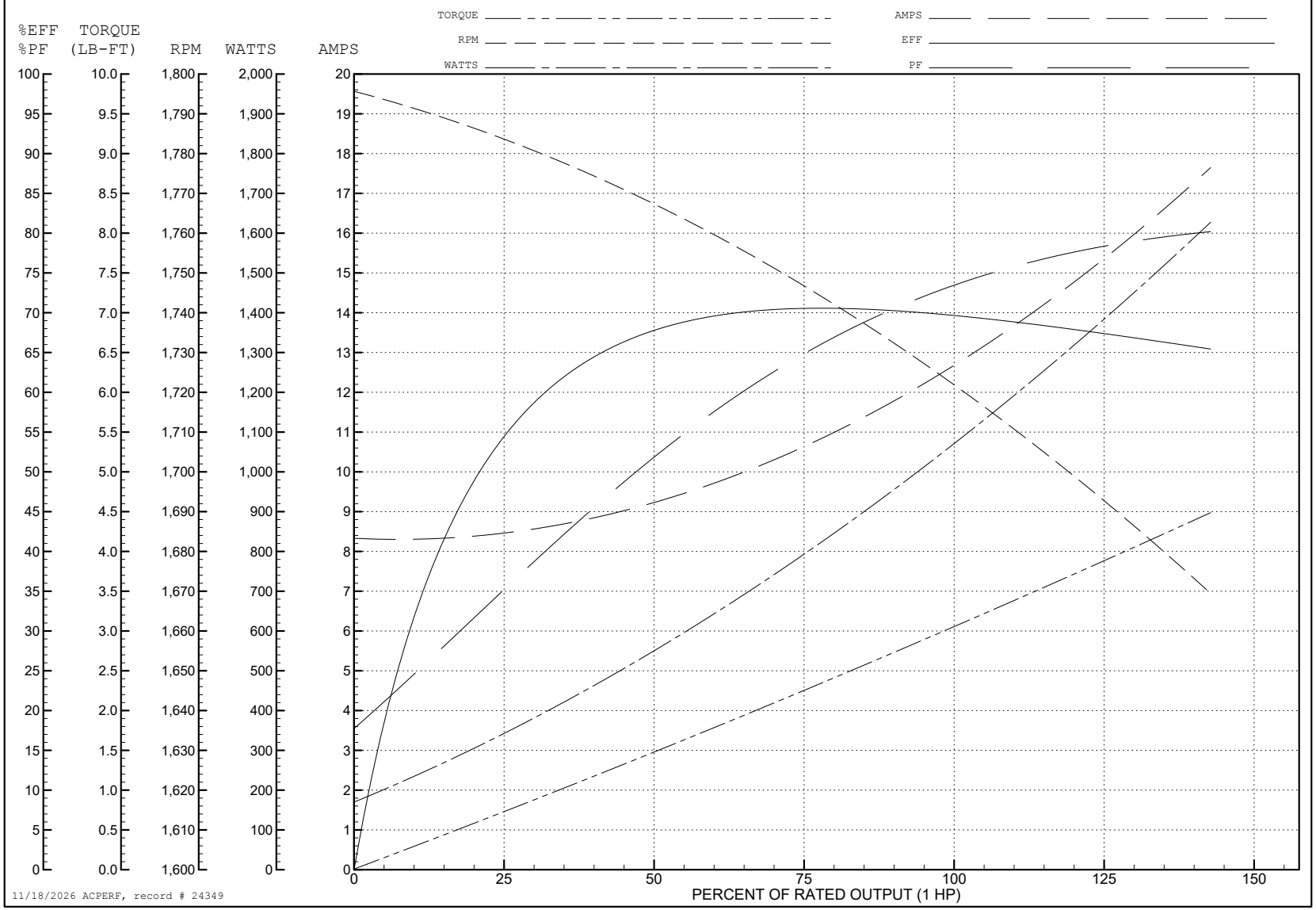
ABB Motors and Mechanical Inc.

WINDING # 35WGX945

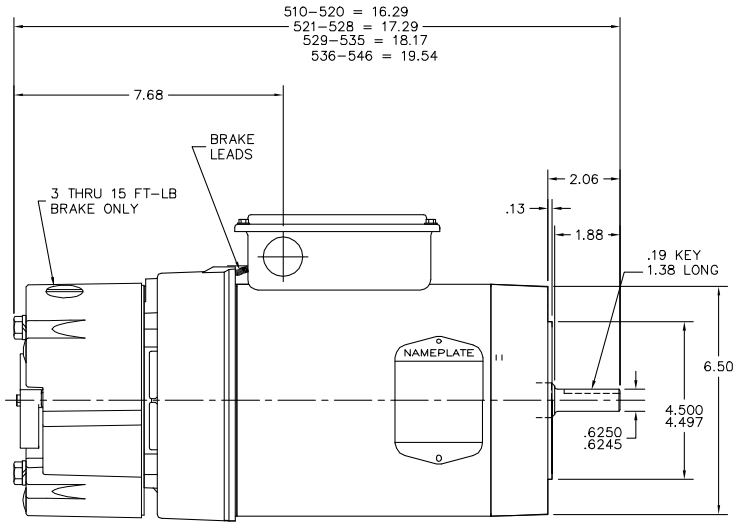
1 HP 1 PH 60 HZ 1725 RPM 115 V 3524L

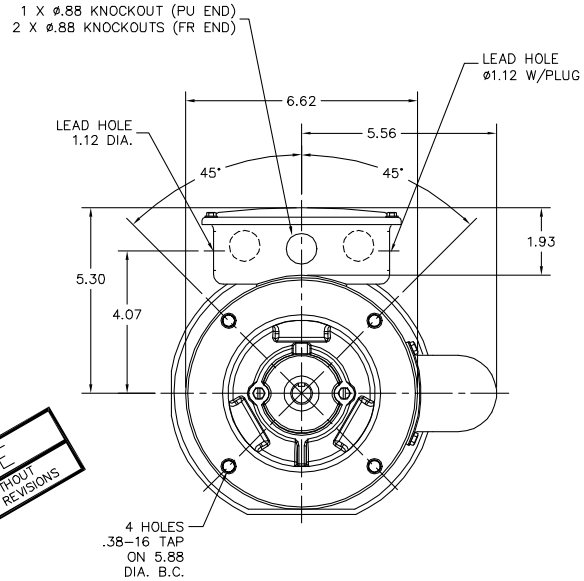
Typical performance - not guaranteed values.

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

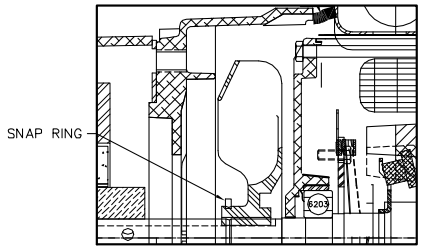


35LYX147





INACTIVE
DO NOT USE WITHOUT UPDATING ALL REVISIONS



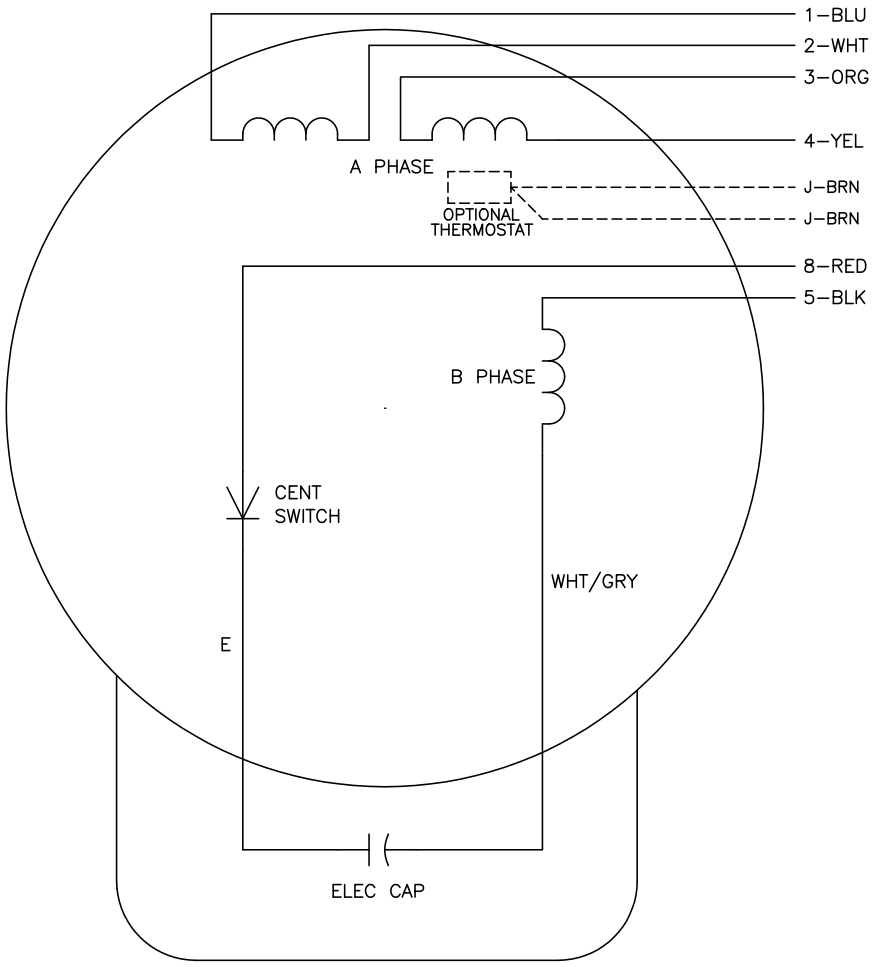
FRONT END DETAIL

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: INA-NO ACTIVE SPECS - UPDATE IF REACTIVATED		BALDOR - RELIANCE®
REV. LTR: C	VERSION: 03	TDR: 000001211789
FILE: \AAA\00153\566	REVISED: 02:12:39 10/24/2023	BY: ENFRAJO
MTL: -		VER 56C TEFC L F3 W/DODGE 'D' SERIES BRAKE & 35CB4007
		SH 1 of 1

35LYX147

CD0001



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	–
LOW OPP	1,3,5	2,4,8	–

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0001

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS

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			BALDOR • DODGE • RELIANCE
REV. LTR: –	VERSION: 00	TDR: 000000741785	
FILE: \CKA\00037\282		REVISED: 12:28:11 04/12/2012	D–SERIES MOTOR BRAKE 5LD AC\DC
MTL: –		BY: CKRONS0	SH 1 of 1