

BALDOR® • RELIANCE 

Product Information Packet

VL3505

.5HP, 1140RPM, 1PH, 60HZ, 56C, 3528L, TEFC, F1

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGN457	CD Diagram:	CD0001	Mfg Plant:	
Mech. Spec:	35C013	Layout:	35LYC013	Poles:	06	Created Date:	09-19-2012
Base:	N	Eff. Date:	03-02-2018	Leads:	6#18		

Specs			
Catalog Number:	VL3505	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	56C	KVA Code:	L
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	115.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3528L
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	65
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	RoHS Status:	ROHS COMPLIANT
Current @ Voltage:	3.900 A @ 230.0 V	Shaft Extension Location:	Pulley End

	4.500 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	7.800 A @ 115.0 V	Shaft Rotation:	Reversible
Design Code:	N	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	NONE (OLD)
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1256L										
CAT.NO.	VL3505									
SPEC.	35C013N457G1									
HP	.5									
VOLTS	115/230									
AMP	7.8/3.9									
RPM	1140									
FRAME	56C				HZ	60			PH	1
SER.F.	1.25		CODE	L	DES	N		CLASS	F	
NEMA-NOM-EFF	62.5		PF	65						
RATING	40C AMB-CONT									
CC									USABLE AT 208V	4.5
DE	6205				ODE	6203				
ENCL	TEFC		SN							
	SFA 9/4.5									

Parts List		
Part Number	Description	Quantity
SA251551	SA 35C013N457G1	1.000 EA
RA238390	RA 35C013N457G1	1.000 EA
EC1460A05SP	ELEC CAP, 460-552 MFD, 125V, 2.06D X 3.	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
35FH4005A32SP	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

Parts List (continued)		
Part Number	Description	Quantity
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	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 CSA CC INDUSTRIAL MOTOR A60	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 38799 - Typical performance - not guaranteed values

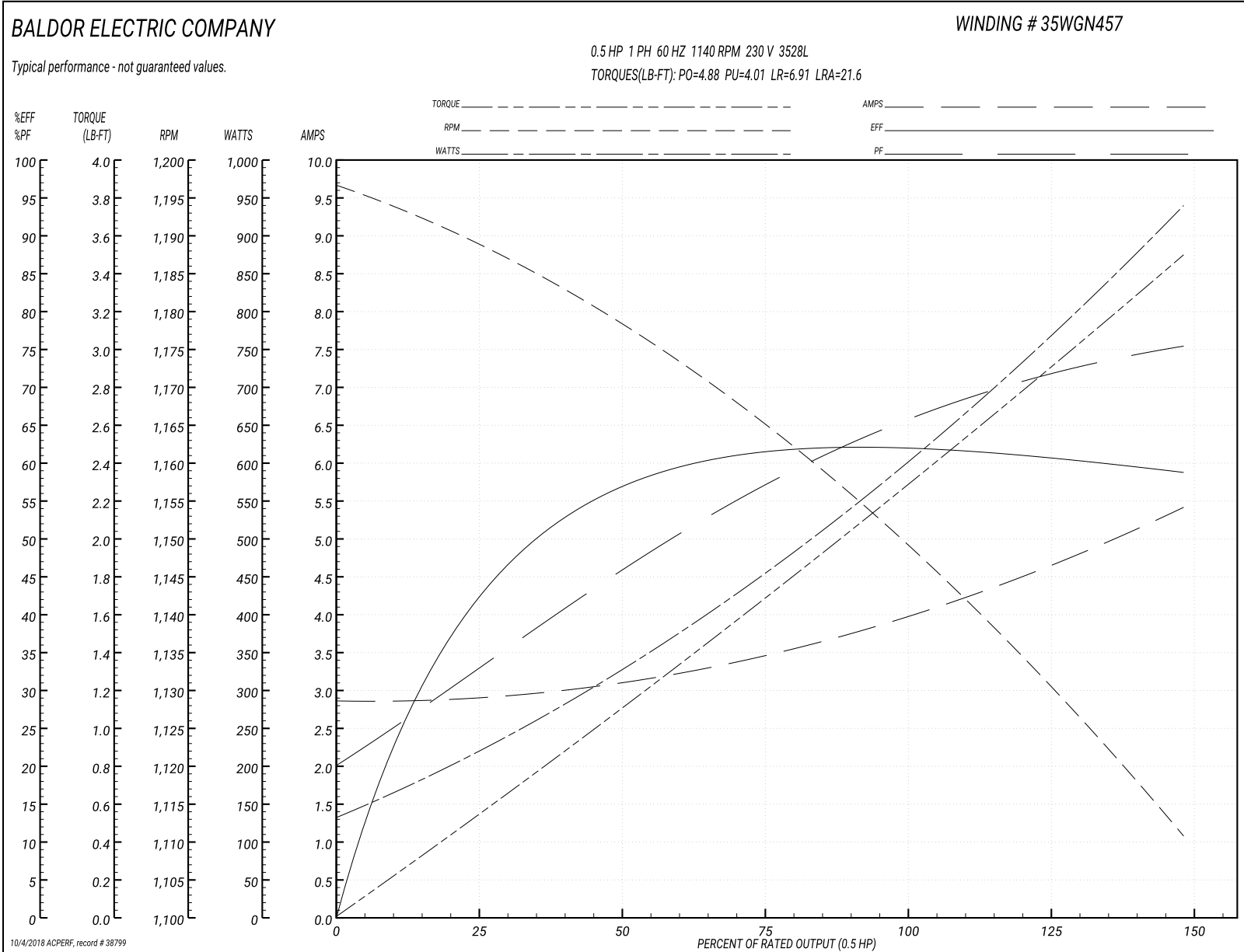
Winding: 35WGN457-R001	Type: 3528L	Enclosure: TEFC
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Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	2.24 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	7.8/3.9			Breakdown Torque	4.88 LB-FT
R.P.M.	1140			Pull-up Torque	4.01 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	6.91 LB-FT
NEMA Design Code	N	KVA Code	L	Starting Current	21.6 A
Service Factor (S.F.)	1.25			No-load Current	2.84 A
NEMA Nom. Eff.	62.5	Power Factor	65	Line-line Res. @ 25°C	4.9379 Ω A Ph 2.7993 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	65°C
S.F. Amps	9/4.5			Temp. Rise @ S.F. Load	91°C

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	46	57	65	72	76	72
Efficiency	39.6	54.5	61.1	62.7	61.8	58.1	61.8
Speed	1187.5	1177.3	1165.8	1152.4	1135	1108.2	1135
Line amperes	2.9	3.12	3.44	3.91	4.54	5.46	4.54

Performance Graph at 230V, 60Hz, 0.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 44451 - Typical performance - not guaranteed values

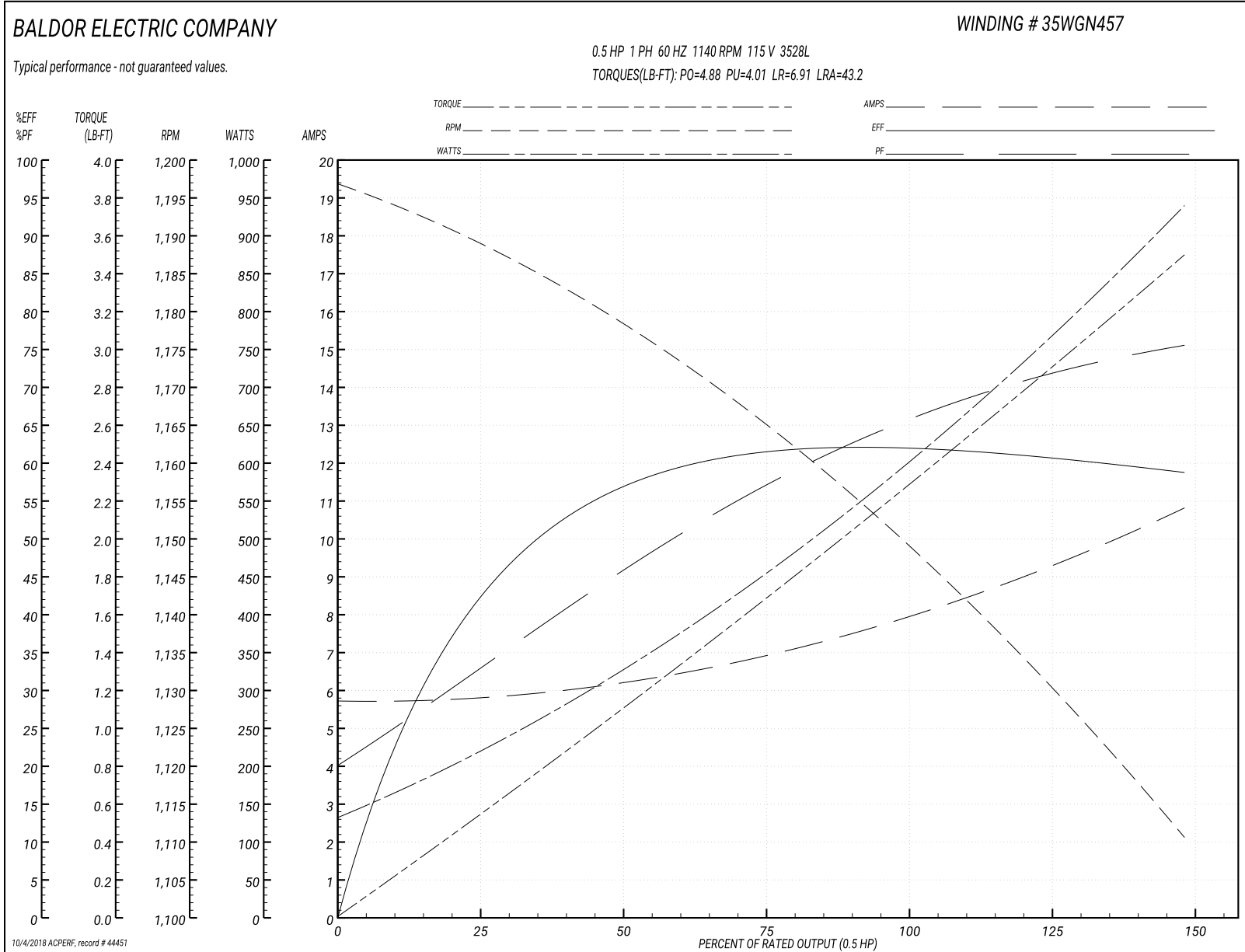
Winding: 35WGN457-R001	Type: 3528L	Enclosure: TEFC
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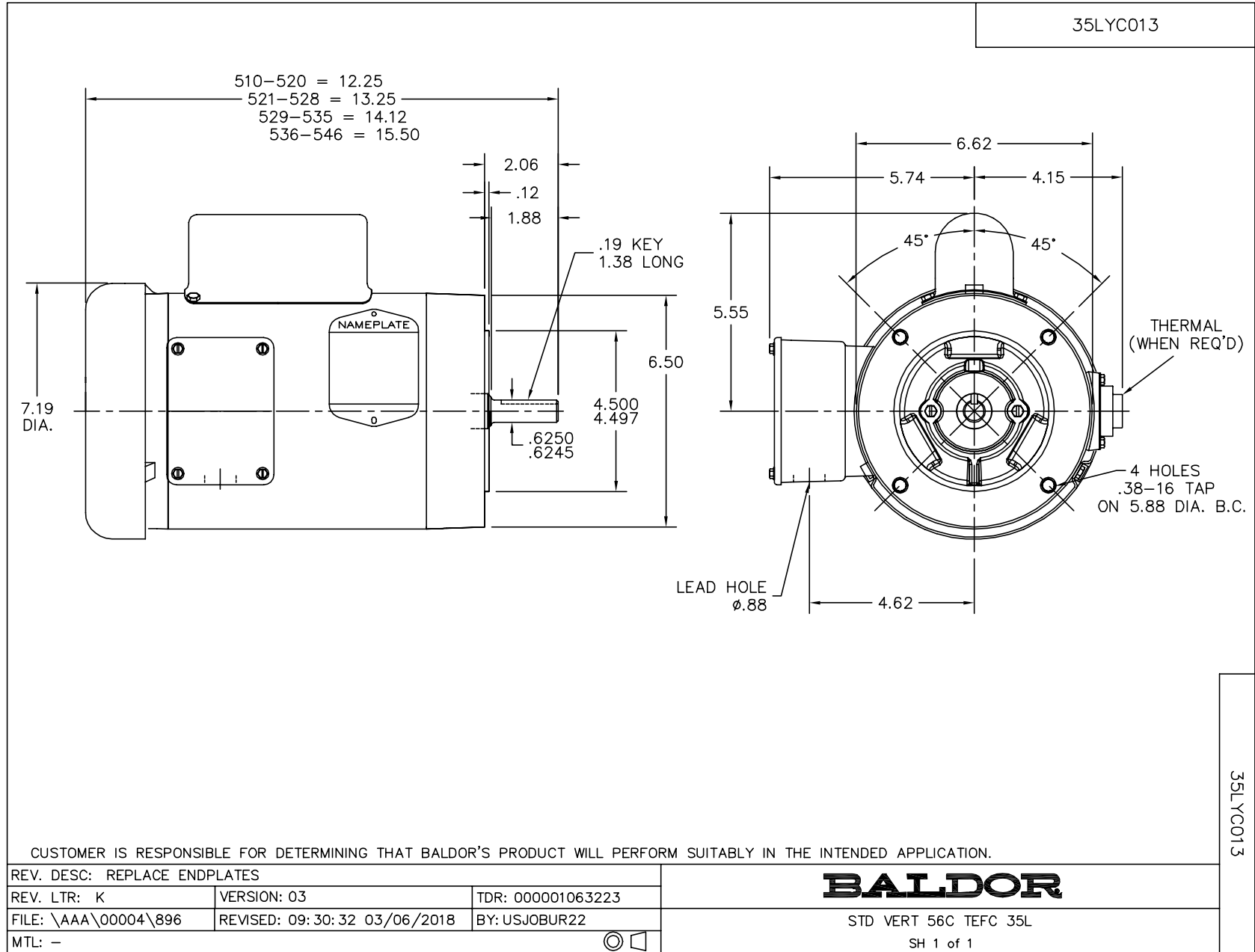
Nameplate Data				115 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	2.24 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	7.8/3.9			Breakdown Torque	4.88 LB-FT
R.P.M.	1140			Pull-up Torque	4.01 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	6.91 LB-FT
NEMA Design Code	N	KVA Code	L	Starting Current	43.2 A
Service Factor (S.F.)	1.25			No-load Current	5.68 A
NEMA Nom. Eff.	62.5	Power Factor	65	Line-line Res. @ 25°C	1.23 Ω A Ph 2.86 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	65°C
S.F. Amps	9/4.5			Temp. Rise @ S.F. Load	79°C
				Rotor inertia	0.166 LB-FT ²

Load Characteristics 115 V, 60 Hz, 0.5 HP

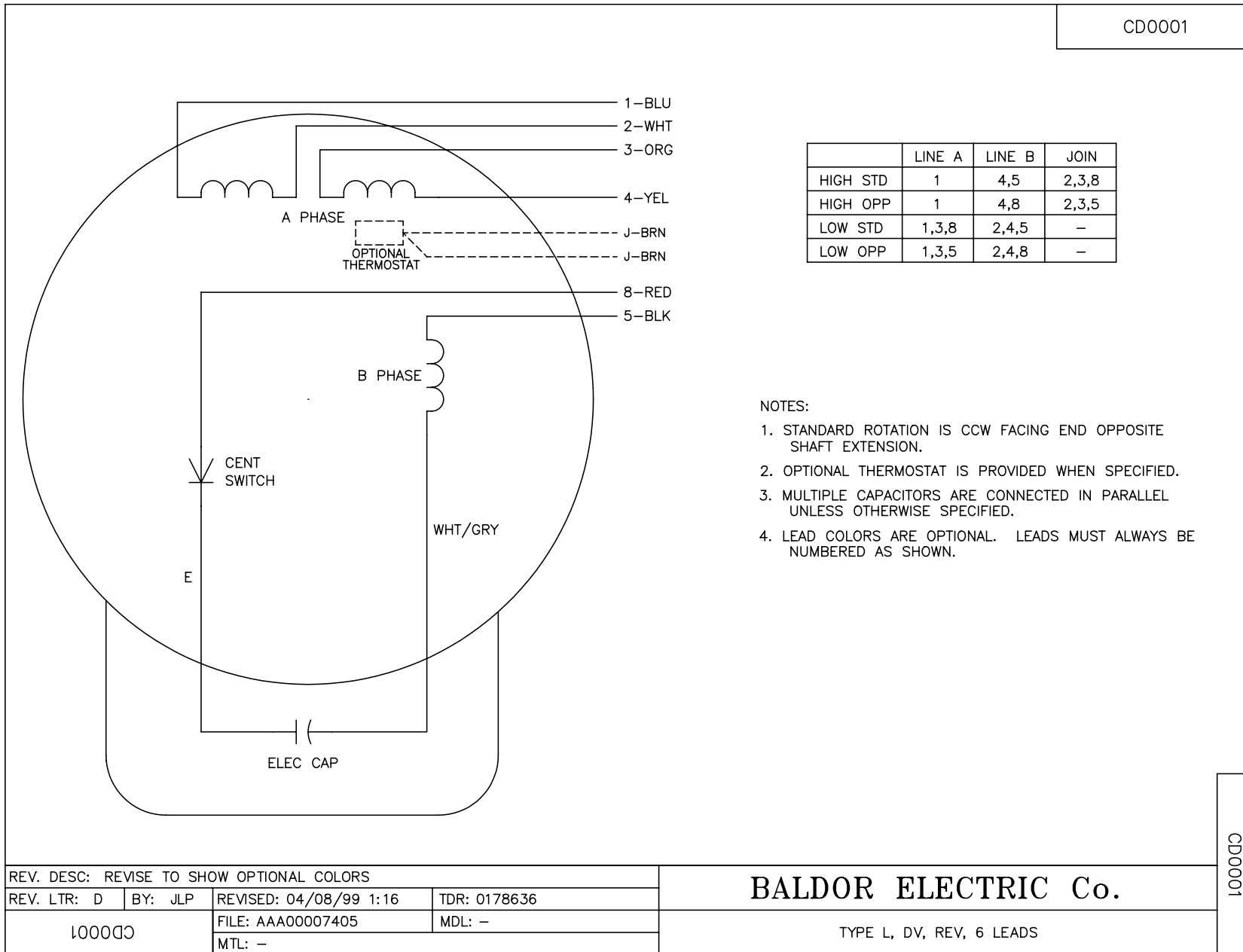
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	46	56	65	71	76	80
Efficiency	39.7	54.6	60.9	62.8	61.9	58.2	82.4
Speed	1188	1177	1166	1152	1135	1108	1442
Line amperes	5.8	6.24	6.88	7.82	9.08	10.9	2.95

Performance Graph at 115V, 60Hz, 0.5HP Typical performance - Not guaranteed values





CD0001



REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
100000		FILE: AAA00007405	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

TYPE L, DV, REV, 6 LEADS

CD0001