

BALDOR® • RELIANCE

Product Information Packet

MECHANICAL DRIVES

CNDM3538

.5HP,1740RPM,3PH,60HZ,56C,3512M,TENV,F1

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3512M	Elec. Spec:	35WGP863	CD Diagram:	CD0005
Enclosure:	TENV	Mfg Plant:		Mech. Spec:	35E4314	Layout:	35LYE4314
Frame:	56C	Mounting:	F1	Poles:	04	Created Date:	04-11-2016
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	05-10-2016
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3505E							
CAT NO	CNDM3538						
SPEC.	35E4314P863G1	ENCL	TENV				
FRAME	56C	HP	.5				
VOLTS	230/460						
FLA	1.6/.8	I.P.	56				
RPM	1740	RPM MAX	2700				
HZ	60	PH	3	CLASS	F		
SER.F.	1.15	DES	B	CC			
NEMA-NOM-EFF	80						
RATING	40C AMB-CONT						
DE BRG	6205	ODE BRG	6203				
GREASE	POLYREX EM						
C HP FR	60	C HP TO	90				
CT HZ FROM	6	CT HZ TO	60	VT HZ FROM	6	VT HZ TO	60
SER.NO							
	50C AT 1.0 SF						

Parts List		
Part Number	Description	Quantity
SA319747	SA 35E4314P863G1	1.000 EA
RA307456	RA 35E4314P863G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB1001A01E	SPL CONDUIT BOX, MACHINED (E-COAT)	1.000 EA
35GS1022A02	GASKET BOX .06 THK NEOP BLK HDN 30-40 DU	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
HW3001B01	BRASS CUP WASHER, FOR #8 SCREW	1.000 EA
35EP1100B94E	FREP TENV (4).125 NPT DRAINS	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP1300A113E	PUEP ENCL 205 BRG F/SEAL, (4).125 NPT	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 EA
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 EA
35CB4516E	CONDUIT BOX LID, E-COAT	1.000 EA
36GS1002	GASKET, 1/16" NEOPRENE CONDUIT BOX LID	1.000 EA
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 EA
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LB1164	LABEL,WARNING AND DRAIN	1.000 EA
MJ5001A23	P.D. GEORGE B-276 AIR DRY VARNISH	0.001 GA
LB1000	LABEL, DIRTY DUTY	1.000 EA
WD1000D21	TRM,T&B #B71M,RING,18-14,.25,NON-INSL	3.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HA3100S08	THRUBOLT 7.375LG SS	4.000 EA
MG1500Y02	SAME AS 004824003CAH	0.010 GA
MG1025L01	PAINT- 786-04 WILKOFAS BLACK EPOXY	0.010 GA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP3505E	SS DIRTY DUTY PLUS INV UL CSA-C US EEV C	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1400/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 55778 - Typical performance - not guaranteed values

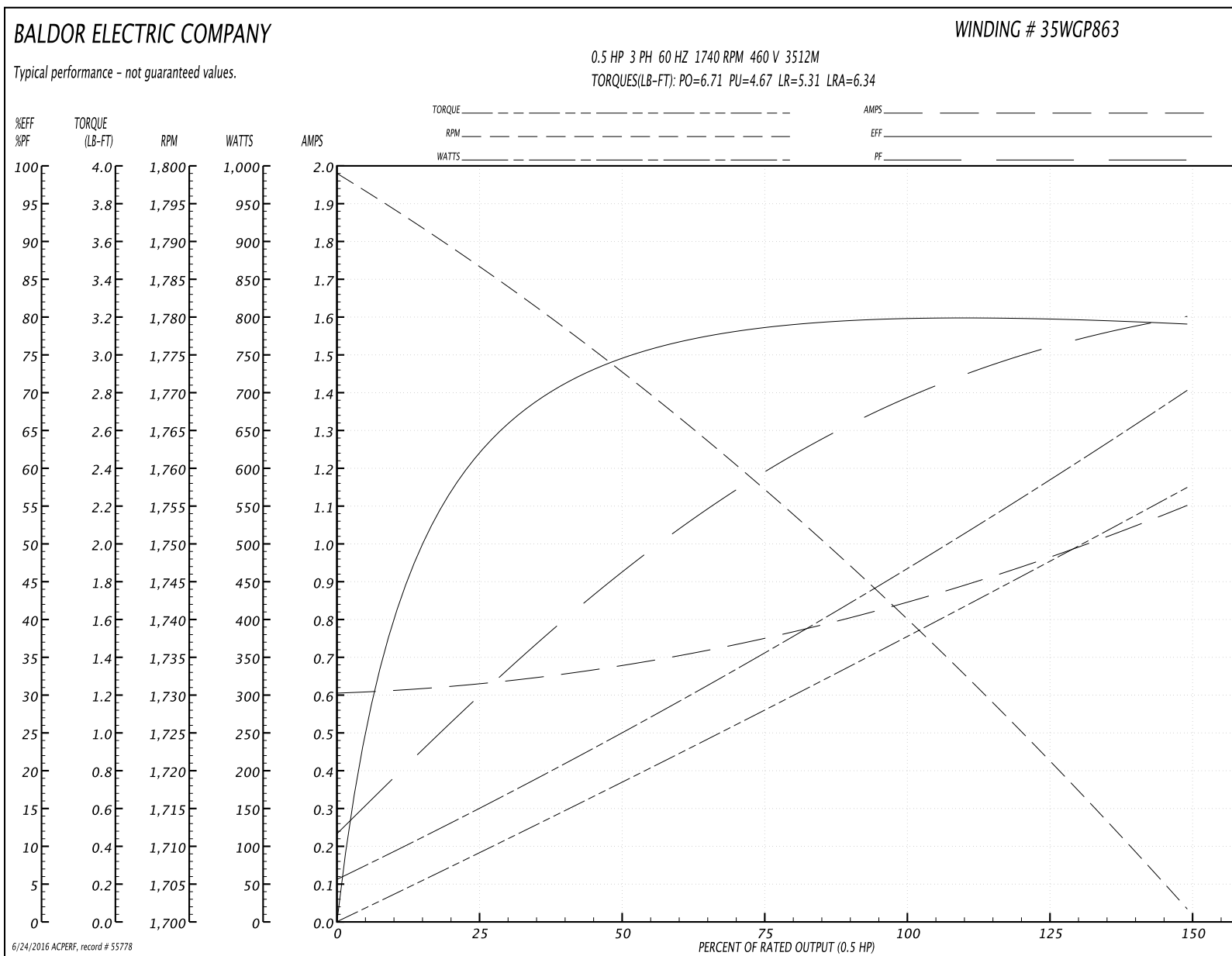
Winding: 35WGP863-R069	Type: 3512M	Enclosure: TENV
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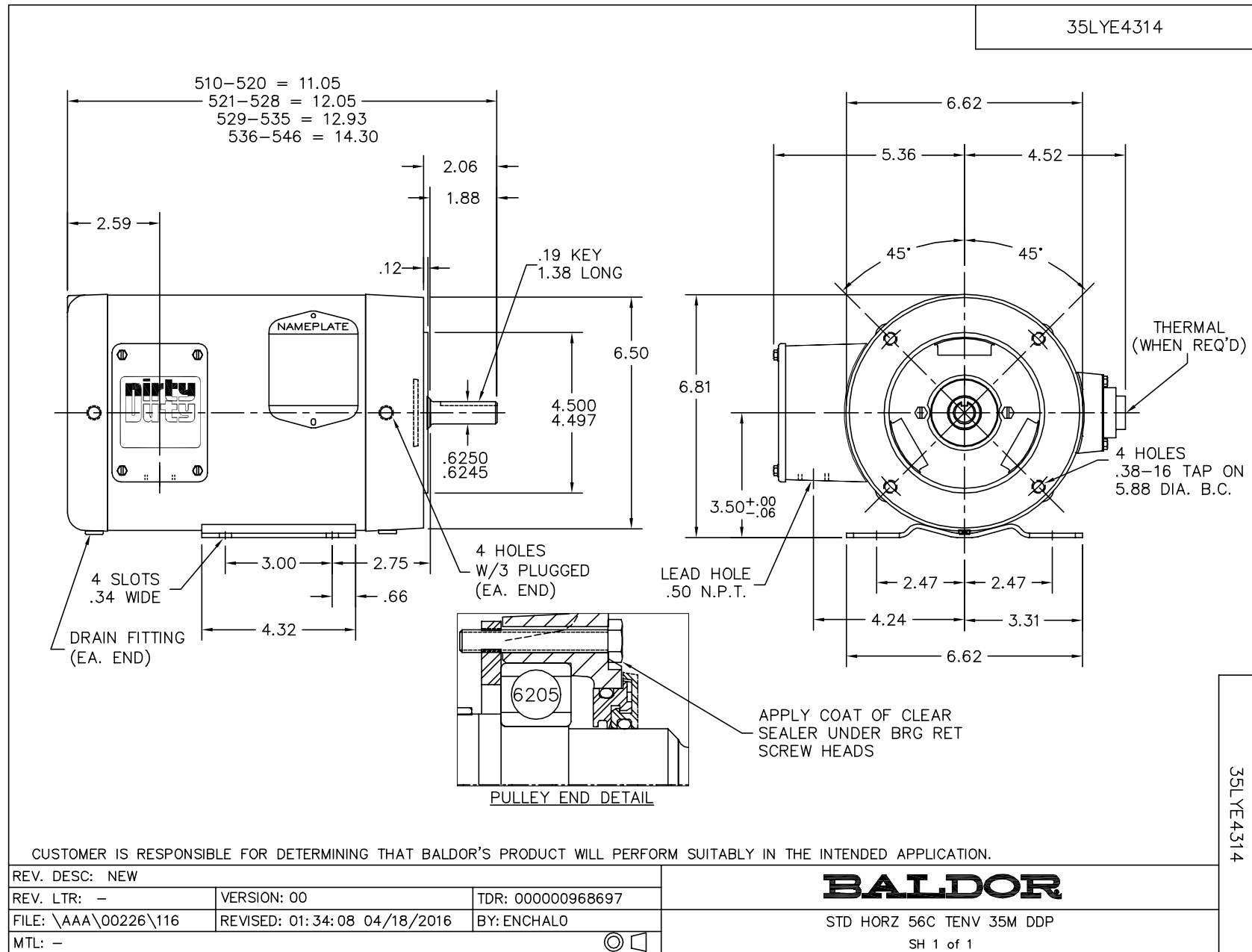
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.49 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	1.6/.8			Breakdown Torque	6.71 LB-FT
R.P.M.	1740			Pull-up Torque	4.67 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.31 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	6.34 A
Service Factor (S.F.)	1.15			No-load Current	0.608 A
NEMA Nom. Eff.	80	Power Factor	69	Line-line Res. @ 25°C	34 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	54°C
S.F. Amps				Temp. Rise @ S.F. Load	67°C

Load Characteristics 460 V, 60 Hz, 0.5 HP

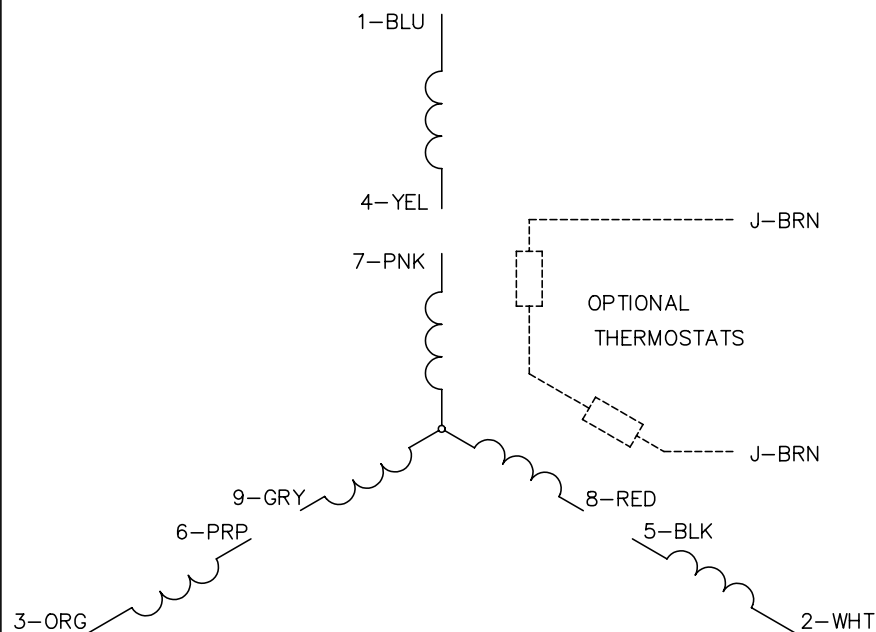
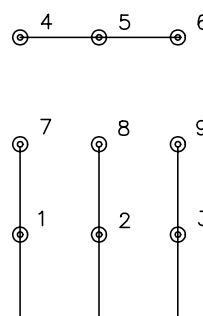
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	45	59	69	76	81	76
Efficiency	59.5	73.8	78.4	80	79.9	78.9	79.9
Speed	1788	1774	1759	1741	1722	1702	1722
Line amperes	0.624	0.669	0.744	0.844	0.957	1.1	0.957

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values

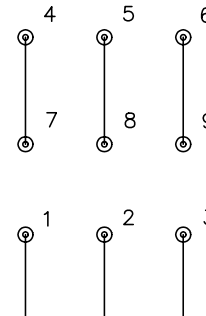




CD0005


 LOW VOLTAGE
(2Y)


LINE

 HIGH VOLTAGE
(1Y)


LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E

BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005