

**BALDOR® • RELIANCE** 

**Product Information Packet**

**CM3545**

**1HP,3450RPM,3PH,60HZ,56C,3416M,TEFC,F1**

Part Detail							
Revision:	Y	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WG0282	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	34A062	Layout:	34LYA062	Poles:	02	Created Date:	
Base:	RG	Eff. Date:	05-17-2016	Leads:	9#18		

Specs			
Catalog Number:	CM3545	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	B
Frame:	56C	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	H
Motor Letter Type:	Three Phase	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3416M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	71
	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:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

<b>Current @ Voltage:</b>	3.600 A @ 230.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
	4.100 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	1.800 A @ 460.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	B	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

Nameplate NP1256L										
CAT.NO.										
SPEC.	34A62-282									
HP	1									
VOLTS	230/460									
AMP	3.6/1.8									
RPM	3450									
FRAME	56C				HZ	60			PH	3
SER.F.	1.25		CODE	H	DES	B		CLASS	B	
NEMA-NOM-EFF	75.5		PF	71						
RATING	40C AMB-CONT									
CC									USABLE AT 208V	4.1
DE	6203				ODE	6203				
ENCL	TEFC		SN							
	SFA 4/2									

Parts List		
Part Number	Description	Quantity
SA009827	SA 34A62-282	1.000 EA
RA006272	RA 34A62-282	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 EA
34GS1029A01	GASKET, CONDUIT BOX	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
34EP3102A01SP	FR ENDPLATE, MACH	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
34EP3300A24SP	PU ENDPLATE, MACH	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 EA
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	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
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.014 GA
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 EA
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2200bx) 4/22	1.000 EA
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
35PA1066	PKG GRP, PRINT PK1001A01	1.000 EA

**AC Induction Motor Performance Data**

Record # 6568

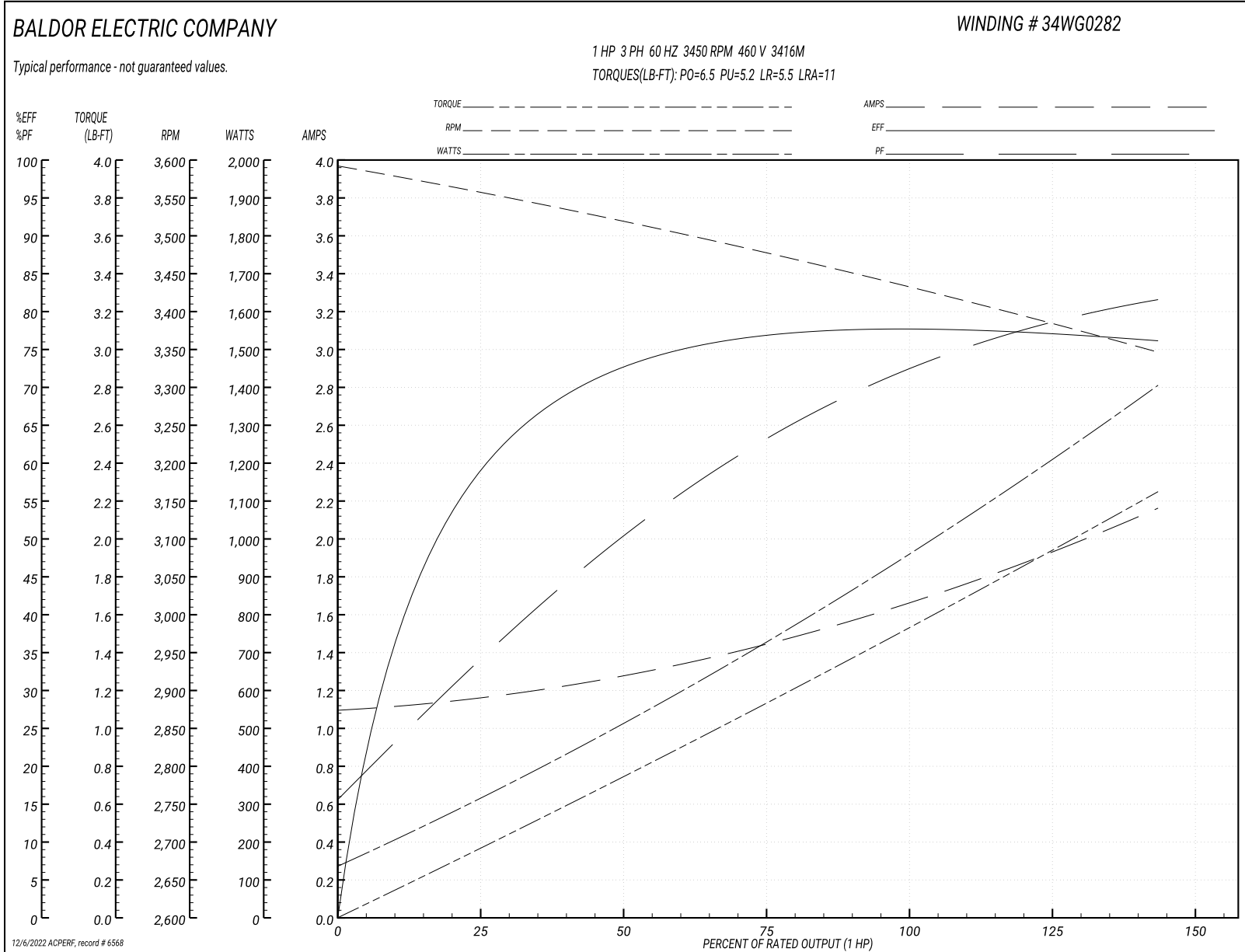
Typical performance - not guaranteed values

Winding: 34WG0282-R001		Type: 3416M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	1	Full Load Torque	1.5 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	3.6/1.8	Breakdown Torque	6.5 LB-FT	
R.P.M.	3450	Pull-up Torque	5.2 LB-FT	
Hz	60 Phase	Locked-rotor Torque	5.5 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	11 A	
Service Factor (S.F.)	1.25	No-load Current	1.1 A	
NEMA Nom. Eff.	75.5 Power Factor	Line-line Res. @ 25°C	16.7 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	71°C	
S.F. Amps	4/2	Temp. Rise @ S.F. Load	85°C	

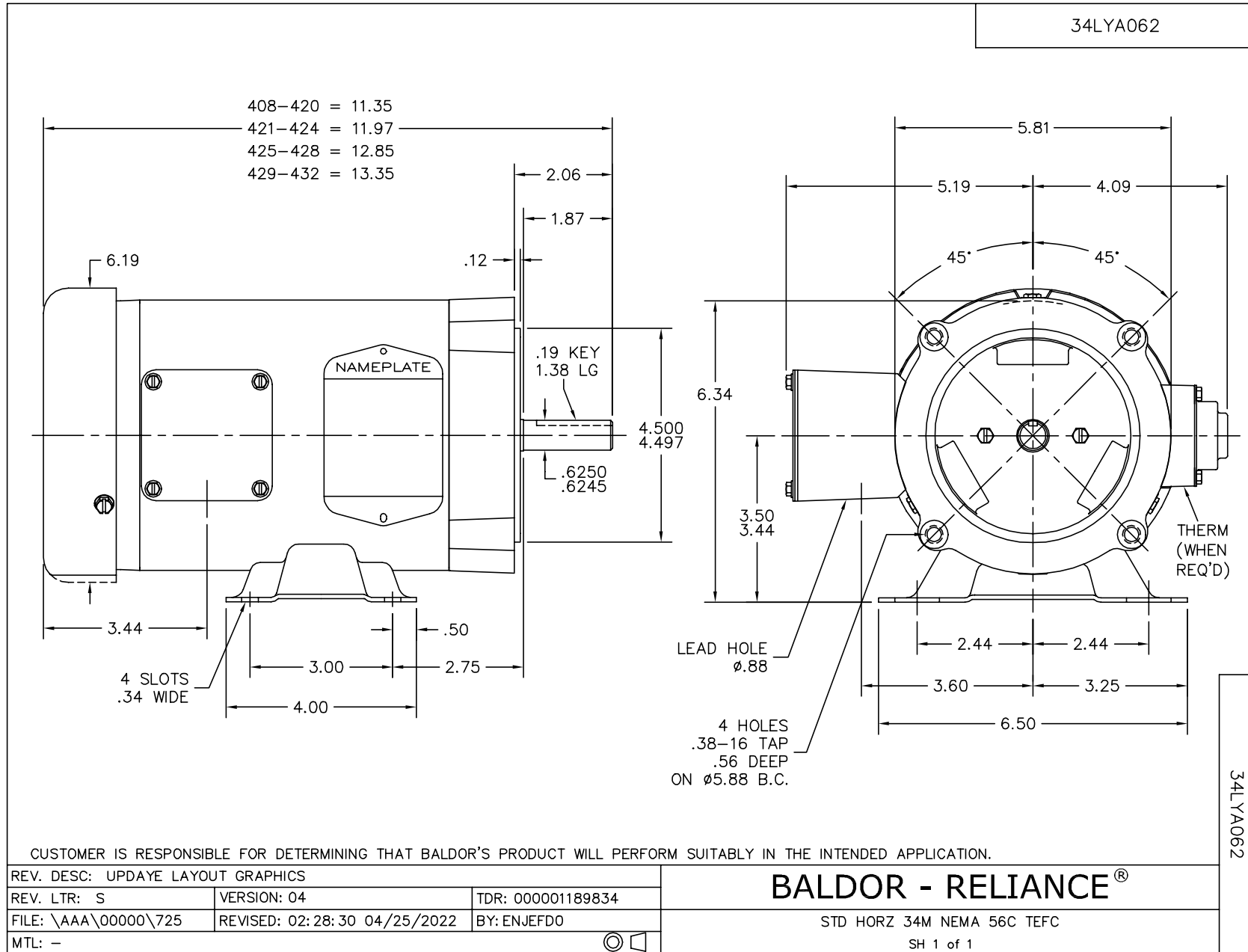
**Load Characteristics 460 V, 60 Hz, 1 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	53	68	76	77	76	77
Efficiency	61.2	72.1	76.8	77.7	77.2	76.2	77.2
Speed	3558	3524	3476	3434	3390	3349	3390
Line amperes	1.17	1.25	1.45	1.65	1.9	2.15	1.9

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values







CD0005

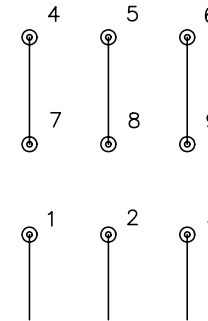


LOW VOLTAGE  
(2Y)



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