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Find the *ABB / Baldor M3538* at our website: *Click HERE*

BALDOR • RELIANCE

Product Information Packet

M3538

.5HP,1725RPM,3PH,60HZ,56,3416M,TEFC,F1

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Part Detail

Revision:	W	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	34WG0872	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	34A061	**Layout:**	34LYA061	**Poles:**	04	**Created Date:**	
Base:	RG	**Eff. Date:**	02-15-2018	**Leads:**	9#18		

Specs

Catalog Number:	M3538	**Insulation Class:**	B
Enclosure:	TEFC	**Inverter Code:**	Not Inverter
Frame:	56	**KVA Code:**	L
Frame Material:	Steel	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	**Locked Bearing Indicator:**	No Locked Bearing
Synchronous Speed @ Frequency:	1800 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:**	63
	UR	**Product Family:**	General Purpose
Auxillary Box:	No Auxillary Box	**Pulley End Bearing Type:**	Ball
Auxillary Box Lead Termination:	None	**Pulley Face Code:**	Standard
Base Indicator:	Rigid	**Pulley Shaft Indicator:**	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Rodent Screen:**	None
Blower:	None	**Shaft Extension Location:**	Pulley End
Current @ Voltage:	1.000 A @ 460.0 V	**Shaft Ground Indicator:**	No Shaft Grounding

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	2.000 A @ 230.0 V	**Shaft Rotation:**	Reversible
	2.500 A @ 208.0 V	**Shaft Slinger Indicator:**	No Slinger
Design Code:	B	**Speed Code:**	Single Speed
Drip Cover:	No Drip Cover	**Motor Standards:**	NEMA
Duty Rating:	CONT	**Starting Method:**	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	**Thermal Device - Bearing:**	NONE (OLD)
Feedback Device:	NO FEEDBACK	**Thermal Device - Winding:**	None
Front Face Code:	Standard	**Vibration Sensor Indicator:**	No Vibration Sensor
Front Shaft Indicator:	None	**Winding Thermal 1:**	None
Heater Indicator:	No Heater	**Winding Thermal 2:**	None

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Nameplate NP1256L

CAT.NO.	M3538								
SPEC.	34A61-872								
HP	.5								
VOLTS	230/460								
AMP	2/1								
RPM	1725								
FRAME	56			**HZ**	60			**PH**	3
SER.F.	1.25		**CODE**	L		**DES**	B	**CLASS**	B
NEMA-NOM-EFF	74		**PF**	63					
RATING	40C AMB-CONT								
CC							**USABLE AT 208V**	2.5	
DE	6203				**ODE**	6203			
ENCL	TEFC	**SN**							
	SFA 2.4/1.2								

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Parts List

Part Number	Description	Quantity
SA009791	SA 34A61-872	1.000 EA
RA006236	RA 34A61-872	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
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA

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Parts List (continued)

Part Number	Description	Quantity
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
35PA1000	PKG GRP, PRINT PK1008A06	1.000 EA

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Accessories

Part Number	Description	Multiplier
34-171	C FACE KIT	A8

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AC Induction Motor Performance Data

Record # 6598 - Typical performance - not guaranteed values

Winding: 34WG0872-R001	**Type:** 3416M	**Enclosure:** TEFC

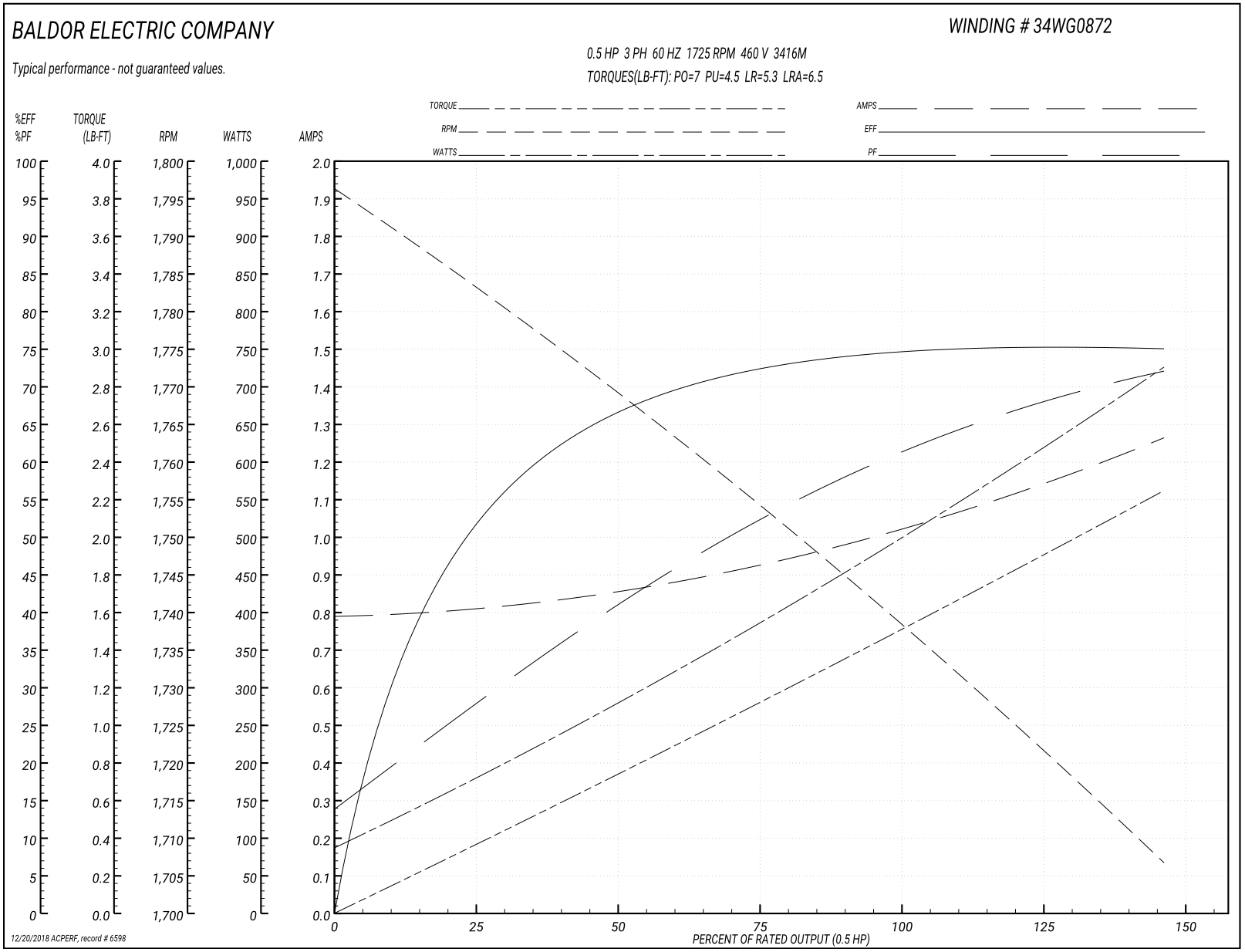
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.5 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	2/1			Breakdown Torque	7 LB-FT
R.P.M.	1725			Pull-up Torque	4.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.3 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	6.5 A
Service Factor (S.F.)	1.25			No-load Current	0.8 A
NEMA Nom. Eff.	74	Power Factor	63	Line-line Res. @ 25ºC	32 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	65°C
S.F. Amps	2.4/1.2			Temp. Rise @ S.F. Load	77°C
				Locked-rotor Power Factor	66
				Rotor inertia	0.0381 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	43	55	63	69	75	0
Efficiency	53.2	66.4	72.5	74.6	75.3	75.1	0
Speed	1782	1769	1754	1739	1724	1706	0
Line amperes	0.8	0.85	0.92	1.03	1.15	1.25	1.15

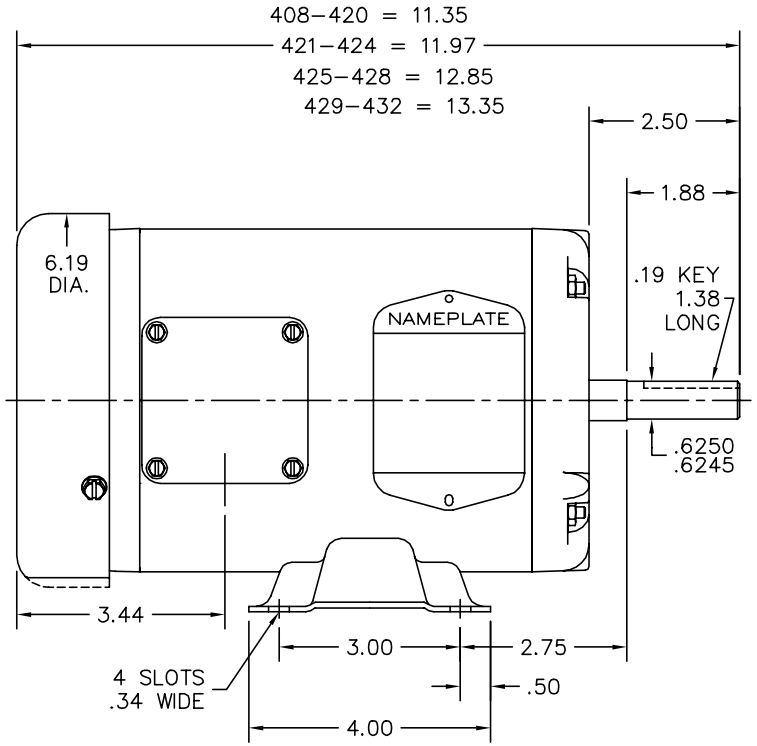
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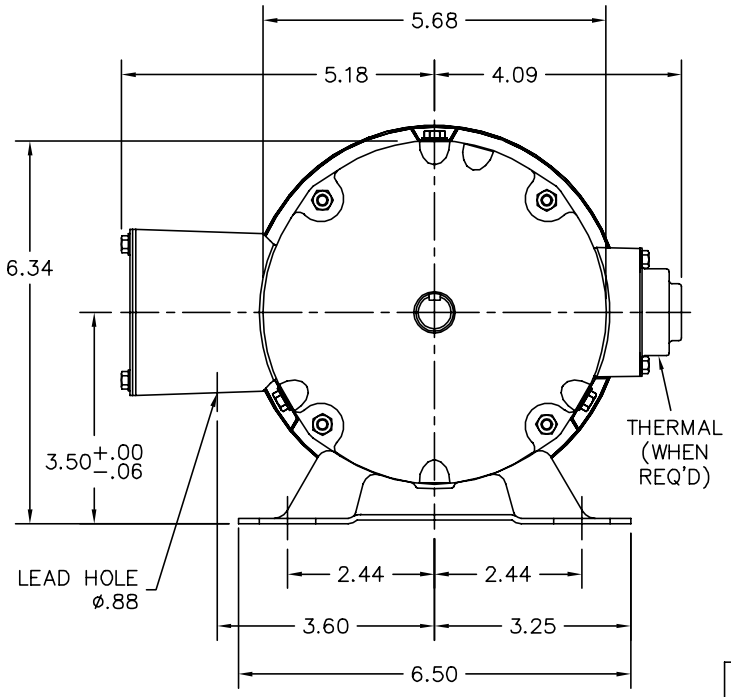
Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values



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34LYA061





34LYA061

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

REV. DESC: SECTION VIEW: REMOVE EXTANEOUS PTS FROM LAYOUT		
REV. LTR: K	VERSION: 03	TDR: 000001047233
FILE: \AAA\00000\561	REVISED: 08:12:58 10/17/2017	BY: ENBENBO
MTL: –		

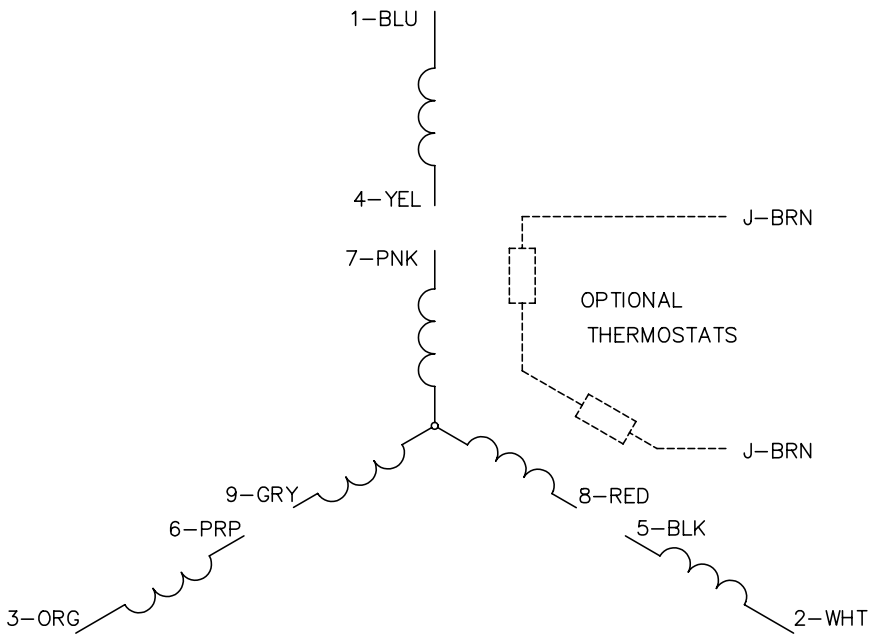
BALDOR

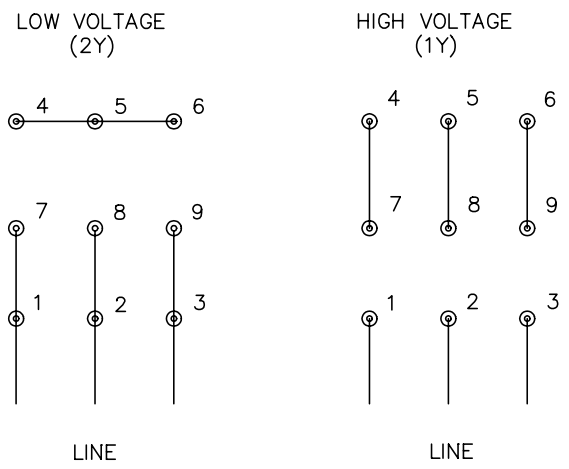
STD HORZ 34M NEMA 56 TEFC

SH 1 of 1

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CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS

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