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Product Information Packet

EM30004

.25HP,1140RPM,3PH,60HZ,48,3416M,TEFC,F1

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Part Detail

Revision:	B	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	34WGR138	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	34F002	**Layout:**	34LYF002	**Poles:**	06	**Created Date:**	10-03-2014
Base:	RG	**Eff. Date:**	05-25-2016	**Leads:**	9#18		

Specs

Catalog Number:	EM30004	**Insulation Class:**	B
Enclosure:	OPEN	**Inverter Code:**	Not Inverter
Frame:	48	**KVA Code:**	N
Frame Material:	Steel	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	.250 HP @ 60 HZ	**Locked Bearing Indicator:**	No Locked Bearing
Synchronous Speed @ Frequency:	1200 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:**	48
	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	**RoHS Status:**	ROHS COMPLIANT
Current @ Voltage:	.700 A @ 460.0 V	**Shaft Extension Location:**	Pulley End

	1.400 A @ 230.0 V
	1.700 A @ 208.0 V
Design Code:	B
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None
Heater Indicator:	No Heater

Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	No Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
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 NP3155L

CAT.NO.	EM30004								
SPEC.	34F002R138G1								
HP	.25								
VOLTS	230/460								
AMP	1.4/.7								
RPM	1140								
FRAME	48		**HZ**	60			**PH**	3	
SER.F.	1.35	**CODE**	N	**DES**	B	**CL**	B		
F.L. AVG. EFF.	67.5	**PF**	48						
RATING	40C AMB-CONT								
CC		**USABLE AT 208V**	1.7						
DE	6203	**ODE**	6203						
ENCL	OPEN	**SN**							
	SFA 1.6/.8								

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Parts List

Part Number	Description	Quantity
SA287912	SA 34F002R138G1	1.000 EA
RA274115	RA 34F002R138G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
34CB3002A	CB CAST W/.88 DIA HOLE	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
34EP3210A01SP	FR ENDPLATE, MACH	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
34EP3212A02	PU ENDPLATE, MODEL 34 OPEN	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	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
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1100/bx) 11/14	1.000 EA
NP3155L	ALUM SUPER-E UL CSA CC "SEMS"	1.000 EA
34PA1002	PKG GRP, PRINT PK1001A01	1.000 EA

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AC Induction Motor Performance Data

Record # 47465 - Typical performance - not guaranteed values

Winding: 34WGR138-R002	**Type:** 3416M	**Enclosure:** OPEN

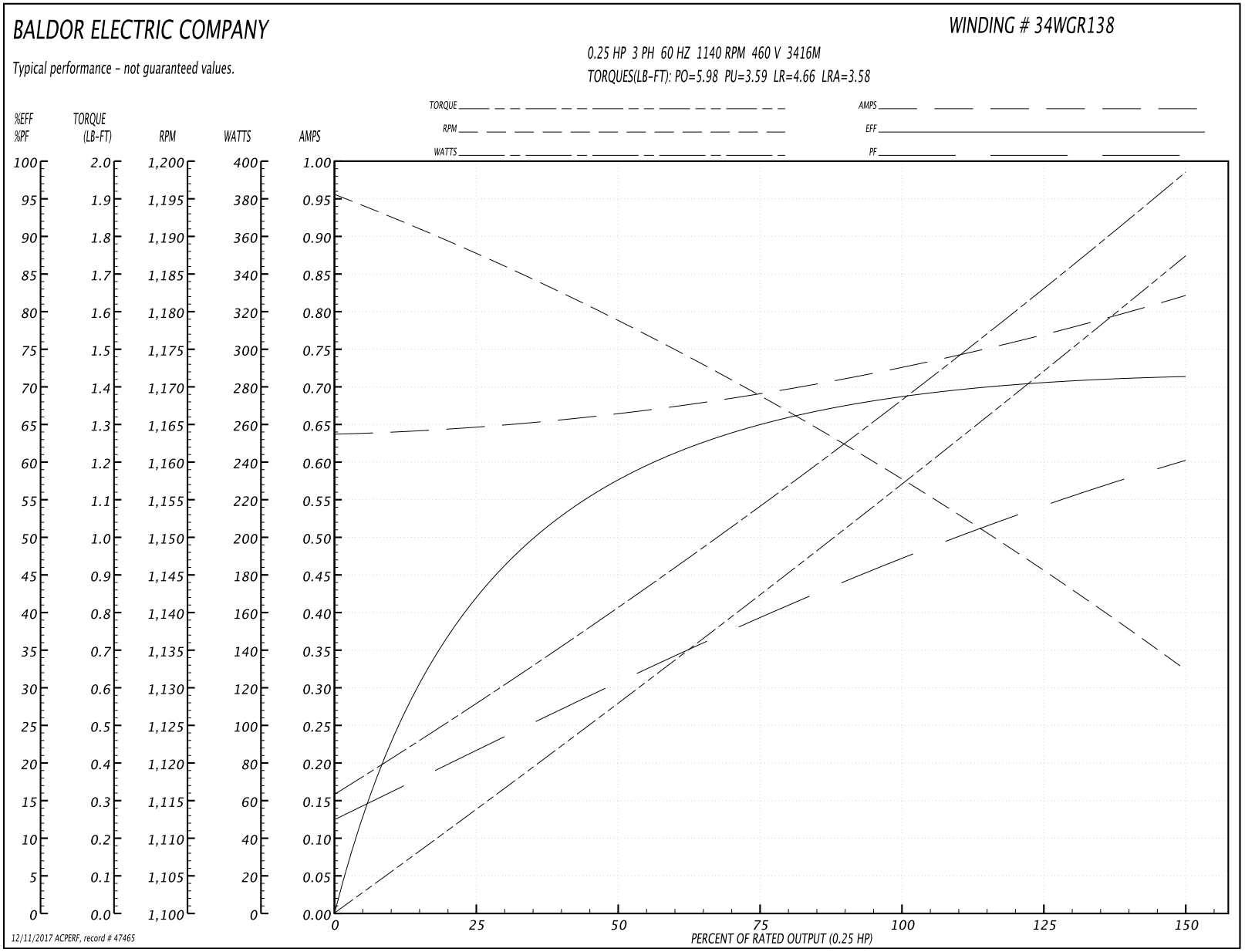
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.25			Full Load Torque	1.14 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	1.4/.7			Breakdown Torque	5.98 LB-FT
R.P.M.	1140			Pull-up Torque	3.59 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	4.66 LB-FT
NEMA Design Code	B	KVA Code	N	Starting Current	3.58 A
Service Factor (S.F.)	1.35			No-load Current	0.639 A
NEMA Nom. Eff.	67.5	Power Factor	48	Line-line Res. @ 25ºC	55.4 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	37°C
S.F. Amps	1.6/.8			Temp. Rise @ S.F. Load	43°C
				Locked-rotor Power Factor	65
				Rotor inertia	0.038 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	22	31	39	47	54	60	56
Efficiency	42.6	57.9	65.1	68.7	70.8	71.3	71
Speed	1187	1178	1169	1158	1146	1132	1140
Line amperes	0.644	0.664	0.693	0.727	0.769	0.821	0.79

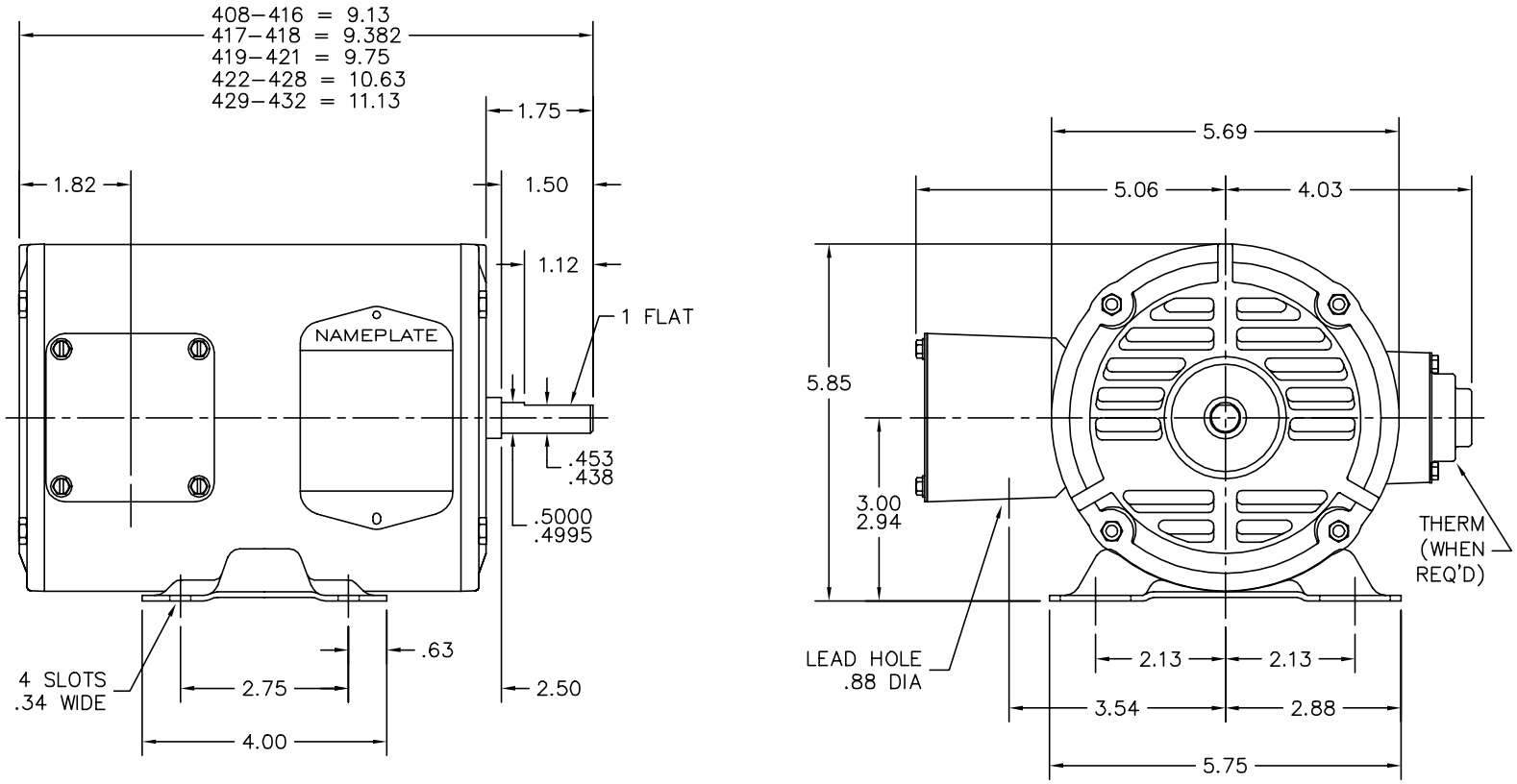
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Performance Graph at 460V, 60Hz, 0.25HP Typical performance - Not guaranteed values



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34LYF002



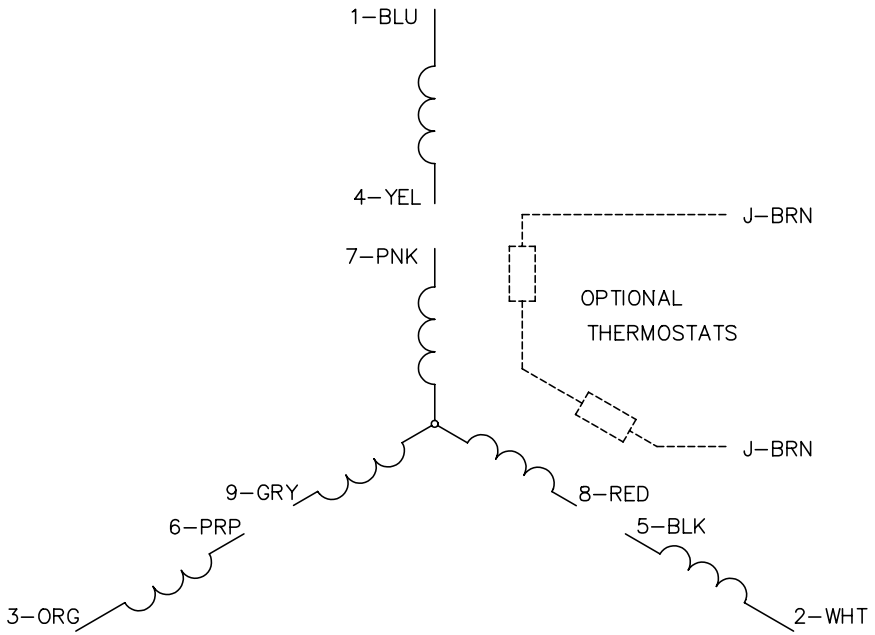
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

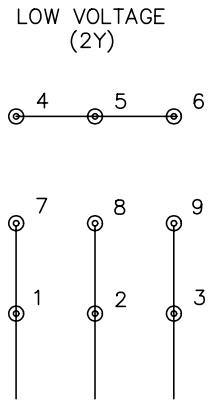
REV. DESC: NEW KBOX & LID				BALDOR ELECTRIC Co.
REV. LTR: K	BY: RT	REVISED: 14:12:27 11/14/2003	TDR: 314968	
34LYF002		FILE: AAA00026293	REF: 34LYF002	STD HORZ MODEL 34M NEMA 48 OPEN
		MTL: –		

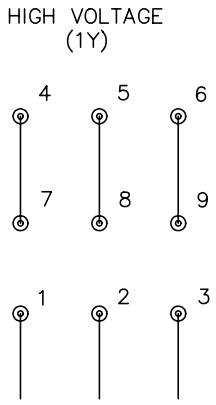
34LYF002

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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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