

BALDOR® • RELIANCE

Product Information Packet

EM31108

.5HP,1725RPM,3PH,60HZ,56,3424M,ODP,F1,N

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3424M	Elec. Spec:	34WGX110	CD Diagram:	CD0005
Enclosure:	ODP	Mfg Plant:		Mech. Spec:	34B061	Layout:	34LYB061
Frame:	56	Mounting:	F1	Poles:	04	Created Date:	02-26-2014
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	05-25-2016
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3155L

CAT.NO.	EM31108												
SPEC.	34B061X110G1												
HP	.5												
VOLTS	230/460												
AMP	1.6/.8												
RPM	1725												
FRAME	56				HZ		60				PH		3
SER.F.	1.25			CODE		J	DES		B	CL		F	
F.L. AVG. EFF.	78.2				PF		78						
RATING	40C AMB-CONT												
CC					USABLE AT 208V								2.1
DE	6203				ODE		6203						
ENCL	ODP			SN									
	SFA 2/1												

Parts List		
Part Number	Description	Quantity
SA277352	SA 34B061X110G1	1.000 EA
RA263903	RA 34B061X110G1	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
34EP3200A01SP	FR ENDPLATE, MACH	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
34EP3200A02SP	FR/PU ENDPLATE, MACH	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
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 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
HA3100A45	THRUBOLT 10-32 X 8.875	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3155L	ALUM SUPER-E UL CSA CC "SEMS"	1.000 EA
35PA1000	PKG GRP, PRINT PK1008A06	1.000 EA

AC Induction Motor Performance Data

Record # 44885 - Typical performance - not guaranteed values

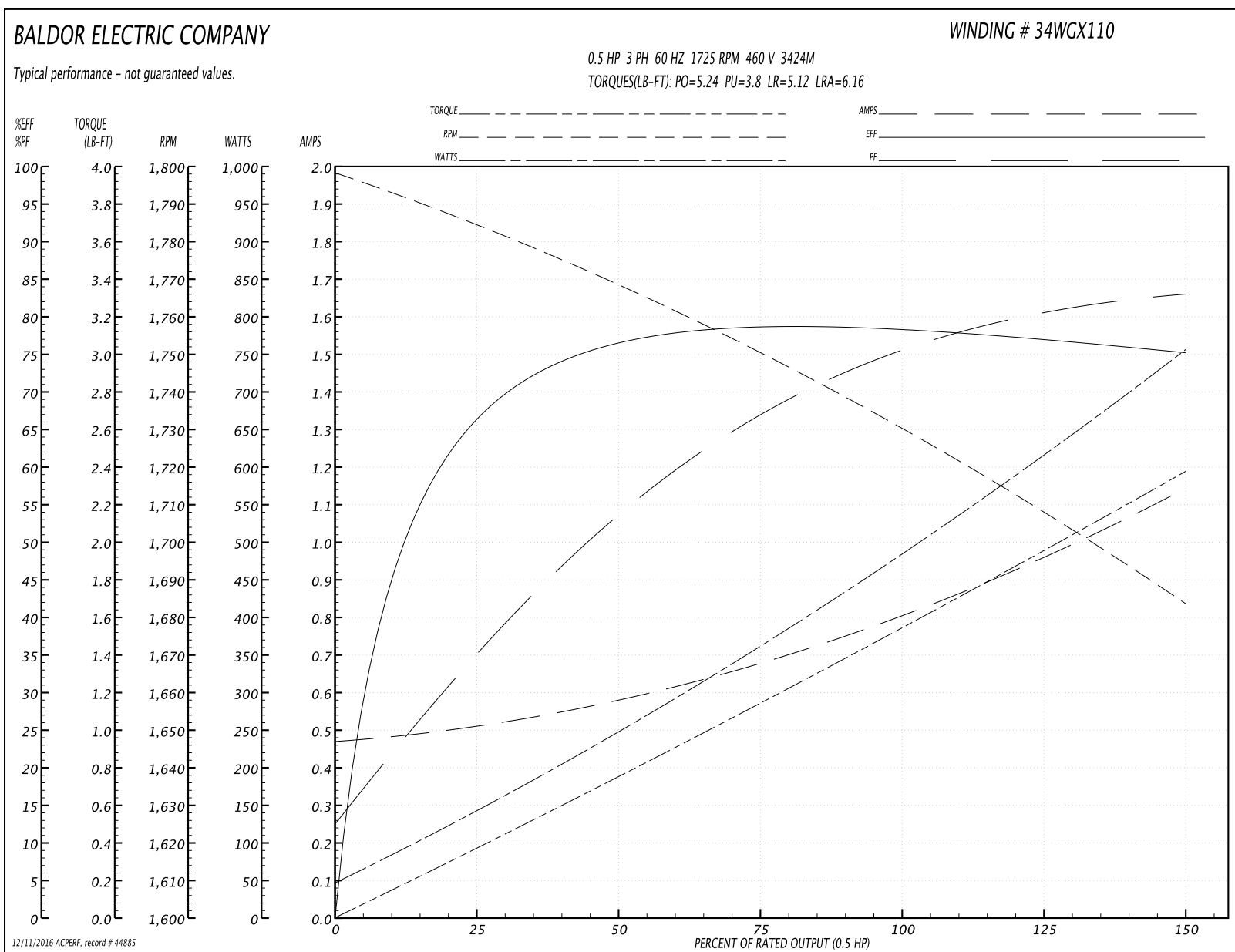
Winding: 34WGX110-R010	Type: 3424M	Enclosure: OPEN
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.57 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	1.6/.8			Breakdown Torque	5.24 LB-FT
R.P.M.	1725			Pull-up Torque	3.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.12 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	6.16 A
Service Factor (S.F.)	1.25			No-load Current	0.474 A
NEMA Nom. Eff.	78.2	Power Factor	78	Line-line Res. @ 25°C	30.994 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	25°C
S.F. Amps	1.8/.9			Temp. Rise @ S.F. Load	34°C
				Locked-rotor Power Factor	53
				Rotor inertia	0.0572 LB-FT ²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	55	68	76	80	83	80
Efficiency	67.3	76.6	78.9	78.7	77.2	74.9	77.2
Speed	1782.6	1766.4	1749.5	1729.5	1707.4	1683.2	1707
Line amperes	0.509	0.586	0.687	0.815	0.971	1.14	0.971

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



AC Induction Motor Performance Data

Record # 49389 - Typical performance - not guaranteed values

Winding: 34WGX110-R010	Type: 3424M	Enclosure: OPEN
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Nameplate Data				230 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.57 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	1.6/.8			Breakdown Torque	5.24 LB-FT
R.P.M.	1725			Pull-up Torque	3.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.12 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	12.3 A
Service Factor (S.F.)	1.25			No-load Current	0.948 A
NEMA Nom. Eff.	78.2	Power Factor	78	Line-line Res. @ 25°C	7.28 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	25°C
S.F. Amps	2/1			Temp. Rise @ S.F. Load	31°C
				Locked-rotor Power Factor	52.9
				Rotor inertia	0.0572 LB-FT ²

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	56	68	76	80	83	80
Efficiency	67.5	76.4	78.6	78.6	77.1	75.1	77.1
Speed	1783	1766	1750	1730	1707	1683	1707
Line amperes	1.02	1.17	1.37	1.63	1.94	2.28	1.94

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

