

BALDOR® • RELIANCE

Product Information Packet

VEM31109

.5HP,1140RPM,3PH,60HZ,56C,3428M,OPEN,F1

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3428M	Elec. Spec:	34WGS940	CD Diagram:	CD0005
Enclosure:	OPEN	Mfg Plant:		Mech. Spec:	34-274	Layout:	34LY0274
Frame:	56C	Mounting:	F1	Poles:	06	Created Date:	10-08-2014
Base:	N	Rotation:	R	Insulation:	B	Eff. Date:	05-25-2016
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3155L

CAT.NO.	VEM31109											
SPEC.	34-0274S940G1											
HP	.5											
VOLTS	230/460											
AMP	2/1											
RPM	1140											
FRAME	56C				HZ		60			PH		3
SER.F.	1.25			CODE		K	DES		B	CL		B
F.L. AVG. EFF.	75.3			PF		65						
RATING	40C AMB-CONT											
CC				USABLE AT 208V							2.3	
DE	6203			ODE		6203						
ENCL	OPEN			SN								
	SFA 2.2/1.1											

Parts List		
Part Number	Description	Quantity
SA288163	SA 34-0274S940G1	1.000 EA
RA274361	RA 34-0274S940G1	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
34EP3200A03SP	FR ENDPLATE, MACH	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
34EP3400A05	PU ENDPLATE, MACH	1.000 EA
34AD2000	BAFFLE PLATE, STAMPED	1.000 EA
51XT0632A06	6-32X3/8 TY23 HXWS SLDSR	4.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
34FH4000A11	DRIP COVER, STAMPED,PRIMER	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
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
HA3100A38	THRUBOLT 10-32 X 9.375	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP3155L	ALUM SUPER-E UL CSA CC "SEMS"	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3083T	STYROFOAM PACKING CRADLE W/TAPE	1.000 EA

AC Induction Motor Performance Data

Record # 47462 - Typical performance - not guaranteed values

Winding: 34WGS940-R002	Type: 3428M	Enclosure: OPEN
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	2.36 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	2/1			Breakdown Torque	7.06 LB-FT
R.P.M.	1140			Pull-up Torque	5.55 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	6.2 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	4.7 A
Service Factor (S.F.)	1.25			No-load Current	0.68 A
NEMA Nom. Eff.	75.3	Power Factor	65	Line-line Res. @ 25°C	32.597 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	49°C
S.F. Amps	2.2/1.1			Temp. Rise @ S.F. Load	66°C
				Locked-rotor Power Factor	56
				Rotor inertia	0.0665 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	27	43	54	63	70	75	70
Efficiency	62.5	73.6	76.7	76.9	75.5	73.1	75.5
Speed	1184.7	1169.4	1153.2	1135.4	1114.5	1089.3	1114
Line amperes	0.707	0.771	0.863	0.978	1.13	1.3	1.13

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





