

BALDOR® • RELIANCE

Product Information Packet

EL3509

1HP,3450RPM,1PH,60HZ,56/56H,3520LC,TEFC

Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3520LC	Elec. Spec:	35WGM131	CD Diagram:	CD0055
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35J385	Layout:	35LYJ385
Frame:	56/56H	Mounting:	F1	Poles:	02	Created Date:	11-07-2008
Base:	RG	Rotation:	R	Insulation:	B	Eff. Date:	06-29-2016
Leads:	4#16 A PH,2#18 B PH					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2116L

CAT.NO.	EL3509									
SPEC.	35J385M131G1									
HP	1									
VOLTS	115/208-230									
AMP	9.4/5-4.7									
RPM	3450									
FRAME	56/56H				HZ 60				PH 1	
SER.F.	1.25		CODE H		DES N		CL B			
NEMA-NOM-EFF	74		PF 94							
RATING	40C AMB-CONT									
CC			USABLE AT 208V							
DE	6205		ODE 6203							
ENCL	TEFC		SN							
	SFA 11.6/6.9-6.8									

Parts List		
Part Number	Description	Quantity
SA177174	SA 35J385M131G1	1.000 EA
RA165223	RA 35J385M131G1	1.000 EA
OC3035F09SP	CYL OIL CAP 35MFD/370V	1.000 EA
EC1645A06SP	ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.	1.000 EA
S/P107-000-001	SUPER E PROC'S-FS, WS & CK PLTS	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	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
35EP3100M02	FREP TEFC 203 BRG W/O GRSR (RAISED FH MT	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
35CB3801	CAPACITOR COVER, CAST	1.000 EA
34GS3002	GASKET, CAPACITOR BOX	1.000 EA
HA7010	CAPACITOR RETENTION CLAMP	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3101A02SP	STD PU ENDPLATE-ENCL-205 BRG LESS GREASE	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A32	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
35GS1030	35 GS FOR CB 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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
35FN3002A05	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 EA
NP2116L	ALUM SUPER-E UL CSA CC	1.000 EA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
SP5181A18	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA

AC Induction Motor Performance Data

Record # 27911 - Preliminary Data Sheet

Winding: 35WGM131-R001	Type: 3520LC	Enclosure: TEFC
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Nameplate Data				115 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	1			Full Load Torque	1.5 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	9.4/4.7			Breakdown Torque	4.12 LB-FT
R.P.M.	3450			Pull-up Torque	3.55 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	4.84 LB-FT
NEMA Design Code	N	KVA Code	H	Starting Current	75.9 A
Service Factor (S.F.)	1.25			No-load Current	2.98 A
NEMA Nom. Eff.	74	Power Factor	94	Line-line Res. @ 25°C	0.517 Ω A Ph 1.77 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	45°C
S.F. Amps	11.6/6.8			Temp. Rise @ S.F. Load	55°C

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	82	91	94	95	94	93	94
Efficiency	48.3	63.9	70.8	73.3	74	73.1	74
Speed	3563	3537	3509	3477	3441	3397	3441
Line amperes	4.16	5.66	7.39	9.29	11.5	13.9	11.5

Performance Graph at 115V, 60Hz, 1.0HP Typical performance - Not guaranteed values





