

BALDOR® • RELIANCE

Product Information Packet

VL3510-50

1HP,1425RPM,1PH,50HZ,56C,3532L,TEFC,F1

Part Detail							
Revision:	AP	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3532L	Elec. Spec:	35WGY990	CD Diagram:	CD0001
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35C013	Layout:	35LYC013
Frame:	56C	Mounting:	F1	Poles:	04	Created Date:	
Base:	N	Rotation:	R	Insulation:	B	Eff. Date:	07-26-2016
Leads:	6#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1372L

CAT.NO.	VL3510-50											
SPEC.	35C13Y990											
HP	1											
VOLTS	110/220											
AMP	12.4/6.2											
RPM	1425											
FRAME	56C				HZ		50			PH		1
SER.F.	1.15		CODE		J	DES		L	CL		B	
NEMA-NOM-EFF	68			PF		82						
RATING	40C AMB-CONT											
CC				USABLE AT 208V								
DE	6205			ODE		6203						
ENCL	TEFC		SN									
	IP54											

Parts List		
Part Number	Description	Quantity
SA022592	SA 35C13Y990	1.000 EA
RA018642	RA 35C13Y990	1.000 EA
EC1540A06SP	ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.	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 GR SR (RAISED FH MT	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
NS2501A01	INSULATOR, CAPACITOR	1.000 EA
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3300A33	SPL FACE MTD EP -ENCL-205 BRG	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
35FN3002A05	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A32SP	IEC FH NO GR SR W/3 HOLES - PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT	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

Parts List (continued)		
Part Number	Description	Quantity
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
SP5051A24	MODEL 35 TORQ STATIONARY SWITCH FOR "L"	1.000 EA
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 EA
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 EA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA
LC0001	CONN LABEL TYPE L, 6 LEAD, DUAL VOLTS, R	1.000 EA
NP1372L	ALUM UL CSA CE CC	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA

AC Induction Motor Performance Data

Record # 10389 - Typical performance - not guaranteed values

Winding: 35WGY990-R001	Type: 3532L	Enclosure: TEFC
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Nameplate Data				220 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	3.69 LB-FT
Volts	110/220			Start Configuration	direct on line
Full Load Amps	12.4/6.2			Breakdown Torque	10.8 LB-FT
R.P.M.	1425			Pull-up Torque	9.53 LB-FT
Hz	50	Phase	1	Locked-rotor Torque	13 LB-FT
NEMA Design Code	L	KVA Code	J	Starting Current	36.9 A
Service Factor (S.F.)	1.15			No-load Current	3.19 A
NEMA Nom. Eff.	68	Power Factor	82	Line-line Res. @ 25°C	2.9 Ω A Ph 1.77 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	62°C
S.F. Amps				Temp. Rise @ S.F. Load	76°C

Load Characteristics 220 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	62	74	81	86	88	84
Efficiency	61.2	71.3	72.8	70.2	63.2	53	66
Speed	1488	1471	1452	1427	1384	1322	1401
Line amperes	3.36	3.92	4.79	5.97	7.94	10.5	7.15

Performance Graph at 220V, 50Hz, 1.0HP Typical performance - Not guaranteed values





