

BALDOR® • RELIANCE

Product Information Packet

PL3515M

2HP,3450RPM,1PH,60HZ,56,3524LC,TEFC,F1

Part Detail							
Revision:	W	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3524LC	Elec. Spec:	35WGY691	CD Diagram:	CD0320
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35T962	Layout:	35LYT962
Frame:	56	Mounting:	F1	Poles:	02	Created Date:	06-22-2007
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	07-07-2016
Leads:	4#16 A&J,2#18 B PH,1#14 #4TH					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1257L

CAT.NO.	PL3515M									
SPEC.	35T962Y691									
HP	2									
VOLTS	115/230									
AMP	17.6/8.8									
RPM	3450									
FRAME	56				HZ 60				PH 1	
SER.F.	1.15			CODE F		DES L		CL F		
NEMA-NOM-EFF	77			PF 95						
RATING	40C AMB-CONT									
CC					USABLE AT 208V					
DE	6205				ODE 6203					
ENCL	TEFC			SN						

Parts List		
Part Number	Description	Quantity
SA111047	SA 35T962Y691	1.000 EA
RA102426	RA 35T962Y691	1.000 EA
OC3060C09	CYL OIL CAP 60MFD/240V	1.000 EA
TPCRT51CB	THERMAL 1PH 1.00 MAN 120CWELDED	1.000 EA
EC1400A03SP	ELEC CAP, 400-480 MFD, 125V, 1.81D X 3.	1.000 EA
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	1.000 EA
TP5059	GENERIC THERMAL KIT	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007A17	35 CB .88 DIA @ 6:00, 1.00 MTO @ 3:00	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
NS2500A02	INSULATOR, MAN THER PROT	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
HA7010	CAPACITOR RETENTION CLAMP	1.000 EA
34GS3002	GASKET, CAPACITOR BOX	1.000 EA
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
HW5100A03SP	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
35FN3002A05	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A32SP	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
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
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 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
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
SP5181A28	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 EA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 EA
NP1257L	ALUM UL CSA CC THERMAL REV MTG	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 10291 - Typical performance - not guaranteed values

Winding: 35WGY691-R001	Type: 3524LC	Enclosure: TEFC
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Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	3 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	17.6/8.8			Breakdown Torque	6 LB-FT
R.P.M.	3450			Pull-up Torque	5 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	7 LB-FT
NEMA Design Code	L	KVA Code	F	Starting Current	48 A
Service Factor (S.F.)	1.15			No-load Current	1.35 A
NEMA Nom. Eff.	77	Power Factor	95	Line-line Res. @ 25°C	1.33 Ω A Ph 1.27 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	66°C
S.F. Amps				Temp. Rise @ S.F. Load	88°C

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	93	93	96	95	95	93	95
Efficiency	57	72	76	77	72.5	73	74.3
Speed	3560	3539	3508	3473	3431	3380	3448
Line amperes	3.1	4.9	6.7	8.8	11.6	13.8	10.5

Performance Graph at 230V, 60Hz, 2.0HP Typical performance - Not guaranteed values





