

BALDOR® • RELIANCE

Product Information Packet

CDM3538

.5HP,1725RPM,3PH,60HZ,56C,3420M,TEFC,F1

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3420M	Elec. Spec:	34WG0097	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	34M811	Layout:	34LYM811
Frame:	56C	Mounting:	F1	Poles:	04	Created Date:	04-20-2016
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	05-18-2016
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3556E

CAT NO	CDM3538			
SPEC.	34M811-0097G1		ENCL	TEFC
FRAME	56C	HP	.5	
VOLTS	230/460 SFA 2/1			
FLA	1.8/.9	I.P.	56	
RPM	1725	RPM MAX	2700	
HZ	60	PH	3	CLASS F
SER.F.	1.25	DES	B	CC
NEMA-NOM-EFF	75.5			
RATING	40C AMB-CONT			
DE BRG	6203	ODE BRG	6203	
GREASE	POLYREX EM			
C HP FR	60	C HP TO	90	
CT HZ FROM	6	CT HZ TO	60	
SER.NO				
	50C AT 1.0 SF			
		VT HZ FROM	6	VT HZ TO 60

Parts List		
Part Number	Description	Quantity
SA320621	SA 34M811-0097G1	1.000 EA
RA308352	RA 34M811-0097G1	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
34CB1000A01E	CONDUIT BOX, WASHDOWN, W/E-COATED	1.000 EA
34GS1017	GASKET, CONDUIT BOX MODEL 34 (BLACK NEOP	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
34EP1100A137LP2	FRONT EP TEFC 203 BRG W/ SEAL	1.000 EA
HW4601A23	INPRO SEAL, 203 BRG, VBX	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
34EP1300A35E	ENDPLATE, MACH W/E-COAT	1.000 EA
HW4606A01	JM CLIPPER/SEAL (WDE-0667-1064-BH49)	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 EA
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
34FH4002A01LP2	IEC FH NO GREASER	1.000 EA
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 EA
34CB4500E	CONDUIT BOX LID, E-COAT	1.000 EA
34GS1007	GASKET, CONDUIT BOX LID MODEL 34 (BLACK	1.000 EA
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 EA
LB1164	LABEL,WARNING AND DRAIN	1.000 EA
MJ5001A23	P.D. GEORGE B-276 AIR DRY VARNISH	0.001 GA
LB1000	LABEL, DIRTY DUTY	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #8 SCREW	1.000 EA
WD1000D21	TRM,T&B #B71M,RING,18-14,.25,NON-INSL	9.000 EA
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 EA
MG2000A17	RUST INHIBITOR PART # SRPO #20	0.001 GA
MG1025L01	WILKOFAS FD, 786.04, BLACK	0.014 GA
MG1500Y02	PRIMER,347.29+347.29C ACTIVATOR WILKOPON	0.010 GA
HA3100S08	THRUBOLT 7.375LG SS	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP3556E	SS DIRTY DUTY PLUS INV UL CSA-C US EEV C	1.000 EA
35PA1000	PKG GRP, PRINT PK1008A06	1.000 EA

AC Induction Motor Performance Data

Record # 55809 - Typical performance - not guaranteed values

Winding: 34WG0097-R039	Type: 3420M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.5 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	1.8/.9			Breakdown Torque	6.8 LB-FT
R.P.M.	1725			Pull-up Torque	4.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.8 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	7 A
Service Factor (S.F.)	1.25			No-load Current	0.54 A
NEMA Nom. Eff.	75.5	Power Factor	69	Line-line Res. @ 25°C	27.5 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	45°C
S.F. Amps	2/1			Temp. Rise @ S.F. Load	54°C
				Locked-rotor Power Factor	56.3
				Rotor inertia	0.0476 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	36	53	64	71	77	84	77
Efficiency	55	69	74.4	78	75.7	74.4	75.7
Speed	1787	1774	1760	1749	1728	1717	1728
Line amperes	0.6	0.65	0.74	0.84	1	1.1	1

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





