

BALDOR® • RELIANCE

Product Information Packet

VM3703

3HP,1750RPM,3PH,60HZ,213C,3542M,TEFC,F1

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3542M	Elec. Spec:	35WGP797	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35E1518	Layout:	35LYE1518
Frame:	213C	Mounting:	F1	Poles:	04	Created Date:	09-04-2012
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	10-16-2013
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L									
CAT.NO.	VM3703								
SPEC.	35E1518P797H1								
HP	3								
VOLTS	208-230/460								
AMP	9.1-8.4/4.2								
RPM	1750								
FRAME	213C	HZ			60	PH	3		
SER.F.	1.15	CODE			L	DES	A	CLASS	F
NEMA-NOM-EFF	87.5	PF			78				
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V							
DE	6206	ODE			6203				
ENCL	TEFC	SN							

Parts List		
Part Number	Description	Quantity
SA250527	SA 35E1518P797H1	1.000 EA
RA237381	RA 35E1518P797H1	1.000 EA
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB CASTING W/1.09 DIA. LEAD HOLE @ 6:	1.000 EA
36GS1000SP	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
HW3001B01	003SS CUP WASHER, FOR #8 SCREW	1.000 EA
35EP3100M01	FREP TEFC 203 BRG W/GRSR (RAISED FH PADS	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3304A01	STD PULLEY 182-4TC ENCL 206 BRG W/ GREAS	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES W/AUTOPHERETIC	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
HW2501E16	3KEY, 1/4 SQ X 1.750	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA
HA3100A24	THRUBOLT 10-32 X 10.625	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
36PA1000	PACK GROUP W/LB5001	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 27555 - Typical performance - not guaranteed values

Winding: 35WGP797-R001	Type: 3542M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3			Full Load Torque	9.08 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	9.1-8.4/4.2			Breakdown Torque	39.7 LB-FT
R.P.M.	1750			Pull-up Torque	23.2 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	27.3 LB-FT
NEMA Design Code	A	KVA Code	L	Starting Current	36.6 A
Service Factor (S.F.)	1.15			No-load Current	2.27 A
NEMA Nom. Eff.	87.5	Power Factor	78	Line-line Res. @ 25°C	4.59 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	66°C
S.F. Amps				Temp. Rise @ S.F. Load	83°C
				Rotor inertia	0.248 LF ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	58	71	78	82	85	80
Efficiency	79.9	86.5	87.8	87.5	86.5	85	86.9
Speed	1789	1777	1764	1750	1734	1717	1740
Line amperes	2.46	2.88	3.46	4.16	4.99	5.91	4.66

Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values





