

BALDOR® • RELIANCE

Product Information Packet

M3116T

1HP,1750RPM,3PH,60HZ,143T,3516M,OPSB,F1

Part Detail							
Revision:	C	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3516M	Elec. Spec:	35WGP674	CD Diagram:	CD0005
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	35B101	Layout:	35LYB101
Frame:	143T	Mounting:	F1	Poles:	04	Created Date:	10-05-2007
Base:	RG	Rotation:	R	Insulation:	B	Eff. Date:	06-17-2009
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L									
CAT.NO.	M3116T								
SPEC.	35B101P674H1								
HP	1								
VOLTS	208-230/460								
AMP	3.38-3.12/1.56								
RPM	1750								
FRAME	143T	HZ			60	PH	3		
SER.F.	1.15	CODE			M	DES	B	CLASS	B
NEMA-NOM-EFF	82.5	PF			73				
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V							
DE	6205	ODE			6203				
ENCL	OPSB	SN							

Parts List		
Part Number	Description	Quantity
SA163582	SA 35B101P674H1	1.000 EA
RA152050	RA 35B101P674H1	1.000 EA
S/P101-000-000	EPACT PROCEDURES-FS PLANT-POLYREX EM, NO	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	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
35EP3201A01	STD FR ENDPLATE-OPEN-203 BRG W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3200A01	STD PU ENDPLATE-OPEN-205 BRG W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13SP	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	1.000 EA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	1.000 EA
LB1125C04	STD-E (STOCK CTN LABEL STD-E WITH FLAG)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
PA1000	PACKING GROUP 3500 SHORT	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 25217 - Typical performance - not guaranteed values

Winding: 35WGP674-R002	Type: 3516M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	2.99 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	3.38-3.12/1.56			Breakdown Torque	17.8 LB-FT
R.P.M.	1750			Pull-up Torque	8.32 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	10.4 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	13.2 A
Service Factor (S.F.)	1.15			No-load Current	1.04 A
NEMA Nom. Eff.	82.5	Power Factor	73	Line-line Res. @ 25°C	16.3 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	25°C
S.F. Amps				Temp. Rise @ S.F. Load	31°C
				Rotor inertia	0.0946 LF ²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	49	63	72	78	83	76
Efficiency	66.3	77.6	81.8	82.9	83.2	82.3	83.1
Speed	1789	1777	1765	1750	1738	1719	1743
Line amperes	1.11	1.21	1.36	1.57	1.78	2.07	1.7

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values





