

BALDOR® • RELIANCE

Product Information Packet

RHM3158

3HP,3450RPM,3PH,60HZ,56H,3524M,OPSB,F1

Part Detail							
Revision:	W	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3524M	Elec. Spec:	35WGT843	CD Diagram:	CD0005
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	35N501	Layout:	35LYN501
Frame:	56H	Mounting:	F1	Poles:	02	Created Date:	06-22-2007
Base:	RS	Rotation:	R	Insulation:	B	Eff. Date:	04-09-2012
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L									
CAT.NO.	RHM3158								
SPEC.	35N501T843								
HP	3								
VOLTS	208-230/460								
AMP	8.3-7.6/3.8								
RPM	3450								
FRAME	56H	HZ			60	PH		3	
SER.F.	1.15	CODE			K	DES		B	CLASS
NEMA-NOM-EFF	82.5	PF			89				
RATING	40C AMB-CONT								
CC		USABLE AT 208V			8.3				
DE	6205	ODE			6203				
ENCL	OPSB	SN							

Parts List		
Part Number	Description	Quantity
SA028693	SA 35N501T843	1.000 EA
RA024739	RA 35N501T843	1.000 EA
11XT0832G06	8-32 X 3/8 TY 23 TAPPING	1.000 EA
35EP3202A01	STD OPEN FR EP - RESILIENT MTD	1.000 EA
RM1000A02SP	CUSHION RING, MODEL 35 SAME AS A07	1.000 EA
HA6005A01A	CLAMP CUSHION RING ASSY 35 FRAME	1.000 EA
LD5000A01	LEAD ASSY, ML1400DF14 W/(2) #10 RING 7"	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 EA
HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 EA
SP1003A06	TERM. BOARD, MODE 35 SW X H-23655 SPL CU	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP1209A01	PU ENDPLATE, MACH	1.000 EA
RM1000A02SP	CUSHION RING, MODEL 35 SAME AS A07	1.000 EA
HA6005A01A	CLAMP CUSHION RING ASSY 35 FRAME	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4500SP	TERMINAL BOX LID STAMPED	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
HW2501D13SP	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
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
35BA4002B01	RESILIENT BASE, STAMPED	1.000 EA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	1.000 EA
35AD2008A01	AIR DEFLECTOR FOR SL BANDW/THERMAL IN FR	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
PA1068	PACK GROUP 35 SHORT W OSB BASE	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA

AC Induction Motor Performance Data

Record # 9634 - Typical performance - not guaranteed values

Winding: 35WGT843-R001	Type: 3524M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3			Full Load Torque	4.6 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	8.3-7.6/3.8			Breakdown Torque	17 LB-FT
R.P.M.	3450			Pull-up Torque	11 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	14.5 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	34 A
Service Factor (S.F.)	1.15			No-load Current	1.9 A
NEMA Nom. Eff.	82.5	Power Factor	89	Line-line Res. @ 25°C	5.57 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
S.F. Amps				Temp. Rise @ S.F. Load	76°C
				Rotor inertia	0.0664 LF ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	71	83	89	92	93	0
Efficiency	71.3	80.3	82.6	82.7	81.6	79.8	0
Speed	3556	3523	3490	3453	3409	3360	0
Line amperes	2.1	2.5	3.1	3.8	4.7	5.7	4.3

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





