

BALDOR® • RELIANCE

Product Information Packet

M3714T-50

10HP,1465RPM,3PH,50HZ,215T,3744M,TEFC,F1

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3744M	Elec. Spec:	37WGS567	CD Diagram:	CD0044
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37A001	Layout:	37LYA001
Frame:	215T	Mounting:	F1	Poles:	04	Created Date:	09-18-2008
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-18-2013
Leads:	12#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2716L									
CAT NO									
SPEC.	37A001S567G1								
HP	10		PH	3					
VOLTS	220/380/440								
AMP	28.4/16.4/14.2								
RPM	1465								
FRAME	215T		HZ	50	I.P.	44			
SER.F.	1.15		CODE	J	DES	A	CL	F	
NOM.EFF.	91		% (100%)						
PF	78		USABLE AT 208V						
RATING	40C AMB-CONT		CC						
DE BRG	6307		ODE	6206					
ENCL	TEFC		SN						
BLANK	IE3-91.2(75%)90.6(50%)								

Parts List		
Part Number	Description	Quantity
SA177220	SA 37A001S567G1	1.000 EA
RA165266	RA 37A001S567G1	1.000 EA
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 EA
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
37EP3101A01SP	FR ENDPLATE,TEFC, 37 L&M, W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP3100A01SP	STD PU ENDPLATE, ENCL,37 "T"-307 BRG, W/	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
07FH4007SP	IEC FH W/GRSR, NOTCH @ 6:00 & 3 FAN CVR	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 EA
37GS1008SP	37 GS FOR CB LID - LEXIDE	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
MG1000G27	MED CHARCOAL METALLIC GREY	0.028 GA
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 EA
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1172A01	CUSTOM MTR CARTON LABEL LASER PRINTER	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
LC0044	CONNECTION DIAGRAM	1.000 EA
NP2716L	ALUM SUPER-E NEMA IE3 UL CSA CC CE	1.000 EA
36PA1001	PACKAGING GROUP	1.000 EA

Accessories		
Part Number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 27634 - Typical performance - not guaranteed values

Winding: 37WGS567-R002	Type: 3744M	Enclosure: TEFC
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Nameplate Data				440 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	10			Full Load Torque	36.1 LB-FT
Volts	220/380/440			Start Configuration	direct on line
Full Load Amps	28.4/16.4/14.2			Breakdown Torque	98.2 LB-FT
R.P.M.	1465			Pull-up Torque	66.5 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	75.6 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	96.3 A
Service Factor (S.F.)	1.15			No-load Current	7.04 A
NEMA Nom. Eff.	91	Power Factor	78	Line-line Res. @ 25°C	1.09 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	90°C
S.F. Amps				Temp. Rise @ S.F. Load	111°C
				Rotor inertia	1.08 LF ²

Load Characteristics 440 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	58	70	76	80	82	78
Efficiency	87	90.6	91.2	90.8	89.7	88.3	90.1
Speed	1491	1484	1475	1466	1457	1446	1461
Line amperes	7.63	9.16	11.5	14.2	17.1	20.3	15.9

Performance Graph at 440V, 50Hz, 10.0HP Typical performance - Not guaranteed values





