

BALDOR® • RELIANCE

Product Information Packet

M3709T-50

7.5HP,2850RPM,3PH,50HZ,213T,3728M,TEFC

Part Detail							
Revision:	U	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3728M	Elec. Spec:	37WGY562	CD Diagram:	CD0044
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37A001	Layout:	37LYA001
Frame:	213T	Mounting:	F1	Poles:	02	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	03-19-2012
Leads:	12#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1372L									
CAT.NO.									
SPEC.	37A001Y562								
HP	7.5								
VOLTS	220/380/440								
AMP	19.6/11.3/9.8								
RPM	2850								
FRAME	213T	HZ			50	PH		3	
SER.F.	1.15	CODE			J	DES		B	CL
NEMA-NOM-EFF	86.5	PF			87				
RATING	40C AMB-CONT								
CC		USABLE AT 208V							
DE	6307	ODE			6206				
ENCL	TEFC	SN							
	IP44								

Parts List		
Part Number	Description	Quantity
SA029864	SA 37A001Y562	1.000 EA
RA025905	RA 37A001Y562	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
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.028 GA
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LC0044	CONNECTION DIAGRAM	1.000 EA
NP1372L	ALUM UL CSA CE CC	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 # 12416 - Typical performance - not guaranteed values

Winding: 37WGY562-R001	Type: 3728M	Enclosure: TEFC
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Nameplate Data				440 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	13.7 LB-FT
Volts	220/380/440			Start Configuration	direct on line
Full Load Amps	19.6/11.3/9.8			Breakdown Torque	63.4 LB-FT
R.P.M.	2850			Pull-up Torque	28.6 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	37.9 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	75.6 A
Service Factor (S.F.)	1.15			No-load Current	3.4 A
NEMA Nom. Eff.	86.5	Power Factor	87	Line-line Res. @ 25°C	1.42 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	62°C
S.F. Amps				Temp. Rise @ S.F. Load	76°C
				Rotor inertia	0.256 LF ²

Load Characteristics 440 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	77	86	87	88	87	88
Efficiency	79.7	86.2	87.5	87.2	86.1	84.5	86.5
Speed	2971	2946	2918	2886	2852	2813	2866
Line amperes	4.2	5.7	7.5	9.8	12.1	14.7	11.2

Performance Graph at 440V, 50Hz, 7.5HP Typical performance - Not guaranteed values





