

BALDOR® • RELIANCE

Product Information Packet

CEM3708T

5HP,1160RPM,3PH,60HZ,215TC,3748M,TEFC,F1

Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3748M	Elec. Spec:	37WGS838	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37G814	Layout:	37LYG814
Frame:	215TC	Mounting:	F1	Poles:	06	Created Date:	06-16-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	05-27-2016
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3441LUA

CAT.NO.	CEM3708T										
SPEC.	37G814S838G1										
HP	5										
VOLTS	230/460										
AMP	14.6/7.3										
RPM	1160										
FRAME	215TC				HZ		60			PH	3
SER.F.	1.15		CODE	K	DES		A	CL		F	
NEMA-NOM-EFF	89.5			PF	72						
RATING	40C AMB-CONT										
CC	010A			USABLE AT 208V						15.3	
DE	6307			ODE		6206					
ENCL	TEFC		SN								

 VPWM INVERTER READY
 CT6-60H(10:1)VT3-60H(20:1)

50Hz 5HP 190/380V 17/8.5A

SF1.0

Parts List		
Part Number	Description	Quantity
SA198636	SA 37G814S838G1	1.000 EA
RA185999	RA 37G814S838G1	1.000 EA
37FN3002C01	EXFN, PLASTIC, 6.00 OD, 1.155 ID	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
37GS1000	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
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37PE3300A01	PUEP ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
07FH4007	PRIMED	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

Parts List (continued)		
Part Number	Description	Quantity
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HA3104A18	THRUBOLT- 5/16-18 X14.000	4.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.028 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3441LUA	ALUM SUPER-E VPWM INV READY UL	1.000 EA
37PA1039	PALLET PACK GRP, PRINT PK1026A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 31439 - Typical performance - not guaranteed values

Winding: 37WGS838-R001	Type: 3748M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	22.7 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	14.6/7.3			Breakdown Torque	73.2 LB-FT
R.P.M.	1160			Pull-up Torque	49.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	55.1 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	51.6 A
Service Factor (S.F.)	1.15			No-load Current	3.61 A
NEMA Nom. Eff.	89.5	Power Factor	72	Line-line Res. @ 25°C	1.6193 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	55°C
S.F. Amps				Temp. Rise @ S.F. Load	68°C
				Locked-rotor Power Factor	22
				Rotor inertia	1.19 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	55	66	73	75	77	74
Efficiency	85.6	89.8	90.4	89.7	88.5	86.6	89
Speed	1191.3	1182.6	1172.9	1162.1	1150.3	1134.9	1155
Line amperes	3.93	4.75	5.89	7.2	8.75	10.6	8.13

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values





