

BALDOR® • RELIANCE

Product Information Packet

CEM3615T

5HP,1750RPM,3PH,60HZ,184TC,3642M,TEFC,F1

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3642M	Elec. Spec:	36WGS268	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	36A002	Layout:	36LYA002
Frame:	184TC	Mounting:	F1	Poles:	04	Created Date:	08-02-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	10-16-2015
Leads:	9#16					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3441LUA

CAT.NO.	CEM3615T												
SPEC.	36A002S268G1												
HP	5												
VOLTS	230/460												
AMP	13.4/6.7												
RPM	1750												
FRAME	184TC				HZ		60				PH		3
SER.F.	1.15		CODE		J	DES		B	CL		F		
NEMA-NOM-EFF	89.5			PF		78							
RATING	40C AMB-CONT												
CC	010A			USABLE AT 208V								13.9	
DE	6206			ODE		6205							
ENCL	TEFC		SN										

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

50Hz 5HP 190/380V 15.6/7.8A

SF1.0

Parts List		
Part Number	Description	Quantity
SA200706	SA 36A002S268G1	1.000 EA
RA188019	RA 36A002S268G1	1.000 EA
36FN3000C01	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 EA
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 EA
36GS1000	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #8 SCREW	1.000 EA
36FE3104A01	FREP MACH ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36PE3301A23	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
36FH4009A102	IEC FH GREASER PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
36CB4516	36 LIPPED CB LID	1.000 EA
37GS1001	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501E16	3KEY, 1/4 SQ X 1.750	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.022 GA
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3441LUA	ALUM SUPER-E VPWM INV READY UL	1.000 EA
G0PA1000	PKG 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 # 35063 - Typical performance - not guaranteed values

Winding: 36WGS268-R016	Type: 3642M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	14.9 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	13.4/6.7			Breakdown Torque	52.2 LB-FT
R.P.M.	1750			Pull-up Torque	31.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	34.9 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	49.1 A
Service Factor (S.F.)	1.15			No-load Current	3.24 A
NEMA Nom. Eff.	89.5	Power Factor	78	Line-line Res. @ 25°C	2.27 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	77°C
S.F. Amps				Temp. Rise @ S.F. Load	93°C
				Locked-rotor Power Factor	39.8
				Rotor inertia	0.391 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	60	72	78	83	83	81
Efficiency	85	89.7	90.6	89.6	88.6	87	89
Speed	1789	1776	1762	1750	1733	1714	1740
Line amperes	3.55	4.31	5.43	6.65	7.94	9.64	7.42

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





