

# **BALDOR**® • ***RELIANCE***

## **Product Information Packet**

# **EM3586T**

**2HP,3490RPM,3PH,60HZ,145T,0526M,TEFC,F1**

Part Detail							
Revision:	W	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0532M	Elec. Spec:	05WGW115	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	05C001	Layout:	05LYC001
Frame:	145T	Mounting:	F1	Poles:	02	Created Date:	07-17-2008
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	10-16-2015
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

<b>Nameplate NP3441LUA</b>									
CAT.NO.	EM3586T								
SPEC.	05C001W115E7								
HP	2								
VOLTS	230/460								
AMP	5/2.5								
RPM	3450								
FRAME	145T	HZ	60	PH	3				
SER.F.	1.15	CODE	N	DES	B	CL	F		
NEMA-NOM-EFF	86.5	PF	85						
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V	5.4						
DE	6205	ODE	6203						
ENCL	TEFC	SN							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1)									
	50Hz 2HP 190/380V 5.8/2.9A sf1.0								

Parts List		
Part Number	Description	Quantity
SA019151	SA 05C001W115E7	1.000 EA
RA015204	RA 05C001W115E7	1.000 EA
S/P107-000-001	SUPER E PROC'S-FS, WS & CK PLTS	1.000 EA
05SF1100A01	STATOR FRAME, MACH	1.000 EA
HW3021G06	.188X 5/8 ROLLED SPR PIN	1.000 EA
06CB3000	BALDOR CONDUIT BOX CAST	1.000 EA
06GS1000	GASKET,CONDUIT BOX	1.000 EA
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 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
HW3001B02	1RASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 EA
35EP1100A02	FR ENDPLATE, TEFC W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP1102A02	PU ENDPLATE, MACH	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA3100A37	THRUBOLT 10-32 X 8.500	4.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A02SP	IEC FH W/GREASER - W/AUTOPHERETIC PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
06CB3500	BALDOR CONDUIT BOX LID	1.000 EA
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 EA
HW2501D13SP	KEY, 3/16 SQ X 1.375	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.022 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3441LUA	ALUM SUPER-E VPWM INV READY UL	1.000 EA
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA

<b>Accessories</b>		
<b>Part Number</b>	<b>Description</b>	<b>Multiplier</b>
35-1300	C FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 53121 - Typical performance - not guaranteed values

<b>Winding:</b> 05WGW115-R010	<b>Type:</b> 0532M	<b>Enclosure:</b> TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	3 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	5/2.5			Breakdown Torque	16 LB-FT
R.P.M.	3450			Pull-up Torque	12.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	16 LB-FT
NEMA Design Code	B	KVA Code	N	Starting Current	30 A
Service Factor (S.F.)	1.15			No-load Current	1.1 A
NEMA Nom. Eff.	86.5	Power Factor	85	Line-line Res. @ 25°C	5 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	31°C
S.F. Amps				Temp. Rise @ S.F. Load	36°C
				Rotor inertia	0.0885 LB-FT <sup>2</sup>

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	69	78	85	87	89	86
Efficiency	75.2	83.8	86.2	86.5	86.4	85.5	86.4
Speed	3571	3548	3525	3501	3476	3448	3486
Line amperes	1.28	1.65	2.09	2.55	3.08	3.64	2.87

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values







