

BALDOR® • RELIANCE

Product Information Packet

EM3583T

1.5HP,3500RPM,3PH,60HZ,143T,0520M,TEFC,F

Part Detail							
Revision:	N	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0520M	Elec. Spec:	05WGX102	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	05C001	Layout:	05LYC001
Frame:	143T	Mounting:	F1	Poles:	02	Created Date:	05-21-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	11-30-2015
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3441LUA

CAT.NO.	EM3583T													
SPEC.	05C001X102G1													
HP	1.5													
VOLTS	230/460													
AMP	3.8/1.9													
RPM	3500													
FRAME	143T					HZ		60				PH		3
SER.F.	1.15			CODE		L	DES		B	CL		F		
NEMA-NOM-EFF	84				PF		85							
RATING	40C AMB-CONT													
CC	010A				USABLE AT 208V								4	
DE	6205				ODE		6203							
ENCL	TEFC			SN										

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

50Hz 1.5HP 190/380V 4.6/2.3A

SF1.0

Parts List		
Part Number	Description	Quantity
SA196917	SA 05C001X102G1	1.000 EA
RA184358	RA 05C001X102G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	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
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B02	BRASS 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
HW5100A03	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
35FH4005A02	IEC FH W/GREASER - W/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
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
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
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-1300	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 53119 - Typical performance - not guaranteed values

Winding: 05WGX102-R008	Type: 0520M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.22 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	3.8/1.9			Breakdown Torque	9.49 LB-FT
R.P.M.	3500			Pull-up Torque	3.61 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	7.35 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	17.9 A
Service Factor (S.F.)	1.15			No-load Current	0.932 A
NEMA Nom. Eff.	84	Power Factor	85	Line-line Res. @ 25°C	12.2 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	43°C
S.F. Amps				Temp. Rise @ S.F. Load	50°C
				Rotor inertia	0.0553 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	79	85	89	90	87
Efficiency	72.3	82.2	84.4	84.8	84.3	82.8	84.5
Speed	3575	3551	3526	3498	3466	3433	3479
Line amperes	1.03	1.25	1.55	1.91	2.31	2.79	2.15

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values





