

BALDOR® • RELIANCE

Product Information Packet

EHFM2543T

50HP,1775RPM,3PH,60HZ,326T,4256M,OPSB,F2

Part Detail							
Revision:	Q	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	4256M	Elec. Spec:	42WGW387	CD Diagram:	CD0180
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	42E133	Layout:	42LYE133
Frame:	326T	Mounting:	F2	Poles:	04	Created Date:	06-16-2006
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	12-26-2013
Leads:	9#8					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2094E06B03									
CAT.NO.	EHFM2543T								
SPEC.	42E133W387G1								
HP	50								
VOLTS	230/460								
AMPS	114/57								
RPM	1775								
FRAME	326T	HZ	60	PH	3				
SER.F.	1.15	CODE	G	DES	B	CL	F		
NEMA-NOM-EFF	94.5	PF	87						
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V	121						
DE	6312	ODE	6311						
AUTO		MANUAL		NONE					
ENCL	OPSB	SN							
BLANK									

Parts List		
Part Number	Description	Quantity
SA144128	SA 42E133W387G1	1.000 EA
RA133339	RA 42E133W387G1	1.000 EA
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	1.000 EA
HA6360	LIFTING LUG FOR 42 FRAME MOTORS.	2.000 EA
42CB4000A01	CONDUIT BOX 40, STAMPED	1.000 EA
19XW2520A08	SCREW,1/4-20X1/2 TAPTITE-II OR ROLOC 91	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
42EP3200A01	FR ENDPLATE, MACH 324-6T	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
42EP3200B13	PUEP, MACH FOR 1/2 SH GND MTG	1.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 EA
42CB4500A01	CONDUIT BOX LID 42, STAMPED, AUTOPHORETI	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	2.000 EA
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 EA
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.030 LB
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.080 GA
HA3151A03	THRUBOLT STUD 1/2-13 X 20.5	4.000 EA
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 EA
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LB1125C02	SUPER-E (STOCK CTN LABEL SUPER-E WITH FL	4.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA

AC Induction Motor Performance Data

Record # 13646 - Typical performance - not guaranteed values

Winding: 42WGW387-R001	Type: 4256M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	50			Full Load Torque	148 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	114/57			Breakdown Torque	420 LB-FT
R.P.M.	1775			Pull-up Torque	222 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	280 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	378 A
Service Factor (S.F.)	1.15			No-load Current	20.2 A
NEMA Nom. Eff.	94.5	Power Factor	87	Line-line Res. @ 25°C	0.1208 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	36°C
S.F. Amps				Temp. Rise @ S.F. Load	47°C
				Rotor inertia	7.46 LF ²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	75	84	87	88	88	87
Efficiency	91.8	94.5	94.9	94.7	94.2	93.4	94.4
Speed	1793	1787	1781	1775	1769	1762	1771
Line amperes	24.1	33	44.3	57	70.8	85.4	65.2

Performance Graph at 460V, 60Hz, 50.0HP Typical performance - Not guaranteed values





