

BALDOR® • RELIANCE

Product Information Packet

EM2543T-12

50HP, 1775RPM, 3PH, 60HZ, 326T, 4256M, OPSB, F1

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Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	4256M	Elec. Spec:	42WGW480	CD Diagram:	
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	42F56	Layout:	
Frame:	326T	Mounting:	F1	Poles:	04	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	02-29-2012
Leads:	12#8	Literature:		Elec. Diagram:		Replaced By:	

Nameplate NP2138L

CAT.NO.	EM2543T-12	P/N		ENCLOSURE	OPSB		
SPEC.	42F056W480	CC	010A	FRAME	326T	S/N	
HP	50	CLASS	F	HZ	60		
RPM	1775	PH	3	DES	B		
VOLT	230/460	KVA-CODE	H	ODE BRG	6311	DE BRG	6312
AMP	122/61	USABLE AT 208V					
RATING	40C AMB-CONT	GREASE	POLYREX EM				
NEMA-NOM-EFF	94.5	PF	81	SER.F.	1.15		
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.			

Parts List		
Part Number	Description	Quantity
SA100841	SA 42F056W480	1.000 EA
RA092914	RA 42F056W480	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
HA6017A01	CAST ADAPTOR	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B16	KPA-4C BURNDY TERMINAL	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	1.000 EA
42EP3200A01	FR ENDPLATE, MACH 324-6T	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
42EP3200B02	PU ENDPLATE, MACH 324-6T	1.000 EA
XY5013A12	NUT, 1/2-13,HEX,STEEL,ZINCPLATED	8.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 EA
LB1115	LABEL,LIFTING DEVICE	1.000 EA
LB5040	INSTRUCTION TAG, AC & DC	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON	0.030 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA3151A03	THRUBOLT STUD 1/2-13 X 20.5	4.000 EA
MG1000Y03	WILKO 689.710 GOLD PAINT SUPER E	0.080 GA
85XU0407A04	#4-7 X 1/4 DRIVE PIN	4.000 EA
LB1119	WARNING LABEL	1.000 EA
LB1125C02	SUPER-E (STOCK CTN LABEL SUPER-E WITH FL	4.000 EA
LB1357	ENERGY GUIDE LABEL (BOX LABEL)	1.000 SH
LC0104A01	CONNECTION DIAGRAM	1.000 EA
NP2138L	ALUM SUPER-E UL CSA-EEV PREM CC (300	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA

Performance Data at 460V, 60Hz, 50.0HP (Typical performance - Not guaranteed values)

General Characteristics			
Full Load Torque:	148.0 LB-FT	Start Configuration:	DOL
No-Load Current:	25.9 Amps	Break-Down Torque:	524.0 LB-FT
Line-line Res. @ 25°C.:	0.112 Ohms A Ph / 0.0 Ohms B Ph	Pull-Up Torque:	357.0 LB-FT
Temp. Rise @ Rated Load:	18 C	Locked-Rotor Torque:	328.0 LB-FT
Temp. Rise @ S.F. Load:	21 C	Starting Current:	422.0 Amps

Load Characteristics							
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor:	45.0	67.0	77.0	82.0	84.0	84.0	83.0
Efficiency:	89.6	93.5	94.4	94.5	94.1	93.7	94.3
Speed:	1794.0	1789.0	1784.0	1779.0	1772.0	1767.0	1775.0
Line Amperes:	29.4	37.6	48.4	60.8	74.3	88.9	68.9

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





