

# BALDOR · RELIANCE II

## **Product Information Packet**

EM4102T

20HP,1180RPM,3PH,60HZ,286T,1054M,TEFC,F1

Part Detail Revision:	D	Status:	PRD/A		Change #			Droprioton/		No	
					Change #:			Proprietary:		No	
Type:	AC	Prod. Type:	1054M		Elec. Spec:	1	10WGY730	CD Diagram:			
Enclosure:	TEFC	Mfg Plant:			Mech. Spec:	1	10C151	Layout:			
Frame:	286T	Mounting:	F1		Poles:	C	06	Created Date:		05-06-2010	
Base:	RG	Rotation:	R		Insulation:	F	F	Eff. Date:		07-25-2013	
Leads:	9#10	Literature:			Elec. Diagram:			Replaced By:			
Nameplate NP:	2138L										
CAT.NO.	EM4102T	P/N			ENG	CLOSURI	E		TEFC		
SPEC.	10C151Y730G	1 CC		010A	FRA	AME			286T	S/N	
HP	20	CLASS	LASS F		HZ			60			
RPM	1180	PH		3	<b>DES</b> A		Α				
VOLT	208-230/460	KVA-CODE	Н		ODI	ODE BRG			6309	DE BRG	6311
AMP	56-54/27	USABLE AT 2	08V								
RATING	40C AMB-CON	40C AMB-CONT GREASE		POLYREX EM							
NEMA-NOM-EFF 91.7		PF	PF		SER.F.			1.15			
		<u> </u>			<u>'</u>						
HTR-VOLTS		HTR-AMPS			MAX	X. SPACE	E HEATER TEMP.				

Parts List				
Part Number	Description	Quantity		
SA194429	SA 10C151Y730G1	1.000 EA		
RA182016	RA 10C151Y730G1	1.000 EA		
09FN3001C02	EXTERNAL FAN, PLASTIC	1.000 EA		
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	1.000 EA		
10CB3000SP	STD KO BOX MODEL 310,312,314 MTRS W/2.00	1.000 EA		
12GS1000SP	GASKET	1.000 EA		
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 EA		
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA		
WD1000B16	T&B CX70TN TERMINAL	1.000 EA		
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	1.000 EA		
10EP1106A01	FR ENDPLATE, MACH	1.000 EA		
10XN3816K32	BOLT, 3/8-16X2 HH YZ(5)	4.000 EA		
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA		
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA		
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA		
10XN2520K32	1/4-20 X 2.00 HX HD SCRW GRADE 5, ZINC P	2.000 EA		
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA		
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA		
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA		
10EP1105A01	PU ENDPLATE, MACH 284-6T	1.000 EA		
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA		
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA		
10FH4000SP	310 FAN HOUSING STAMPED	1.000 EA		
10XN2520K08	1/4-20 X .50 GRADE #5. STL. ZINC PLATE	4.000 EA		

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Parts List (continued)				
Part Number	Description	Quantity		
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA		
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA		
10GS1000	GASKET, CONDUIT BOX LID	1.000 EA		
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA		
HW4600B40	V-RING SLINGER 2.000 X 2.680 X 0.280	1.000 EA		
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA		
LB5040	INSTRUCTION TAG, AC & DC	1.000 EA		
LB1115	LABEL,LIFTING DEVICE	1.000 EA		
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA		
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA		
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA		
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA		
MJ1000A75	GREASE, POLYREX EM EXXON	0.130 LB		
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA		
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA		
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA		
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA		
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA		
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA		
MG1000Y03	WILKO 689.710 GOLD PAINT SUPER E	0.070 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		
LC0181	CONNECTION LABEL	1.000 EA		

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Parts List (continued)				
Part Number	Description	Quantity		
NP2138L	ALUM SUPER-E UL CSA-EEV PREM CC (300	1.000 EA		
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 EA		
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA		

### **BALDOR • RELIANCE** Product Information Packet: EM4102T - 20HP,1180RPM,3PH,60HZ,286T,1054M,TEFC,F1

Accessories					
Part Number	Description	Multiplier			
10-1305	C FACE KIT	A8			
10EP1502A01SP	D-FLANGE KIT	A8			

Performance Date	ta at 460V, 60Hz,	20.0HP (Typical pe	rformance - Not gua	ranteed values)				
General Characterist	ics							
Full Load Torque:		89.4 LB-FT		Start Configurati	start Configuration: DOL			
No-Load Current:		13.1 Amps		Break-Down To	rque:	276.0 LB-FT	276.0 LB-FT	
Line-line Res. @ 25°C.:		0.425 Ohms A Pl	n / 0.0 Ohms B Ph	Pull-Up Torque:		115.0 LB-FT	115.0 LB-FT	
Temp. Rise @ Rated Load:		65 C		Locked-Rotor To	orque:	166.0 LB-FT	166.0 LB-FT	
Temp. Rise @ S.F. Load:		79 C		Starting Current	Starting Current: 165.0 Amps			
Load Characteristics								
% of Rated Load	25	50	75	100	125	150	S.F.	
Power Factor:	39.0	60.0	71.0	77.0	79.0	80.0	78.0	
Efficiency:	iciency: 86.6 91.1 91.9		91.7	90.9	89.8	91.2		
Speed:	1194.6	1189.5	1184.1	1178.3	1171.4	1163.8	1174.0	
Line Amperes:	14.3	17.5	21.9	26.9	32.7	39.3	30.4	

#### Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values





