

BALDOR · RELIANCE II

Product Information Packet

ECP4102T

20HP,1180RPM,3PH,60HZ,286T,1062M,TEFC,F1

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Part Detail									
Revision:	R	Status:	PRD/A	Change #:		Proprietary:	No		
Type:	AC	Prod. Type:	1062M	Elec. Spec:	10WGX978	CD Diagram:	CD0180		
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	10H292	Layout:	10LYH292		
Frame:	286T	Mounting:	F1	Poles:	06	Created Date:	01-09-2013		
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	03-02-2016		
Leads:	9#10	9#10 Replaced By:							
Literature:		Elec. Diagram:							

Nameplate NP32	241										
CAT NO	ECP4102T	P/N				7	ENCLOSURE [-	TEEC			
			FRAME 286T			S/N	LINOLOGORE	12.0			
HP		CLASS		60	DES						
RPM	1180	RPM MA	X 1800	PH	3		KVA-CODE H				
VOLT	230/460	MO	OR WEIGHT	455						_	
AMP	52/26	SER	F. 1.15	PF 78		O	DE B <u>RG</u> 6311	DE	3RG 6311		
RATING	40C AMB-CONT		NEMA-NOM-E	FF 93		GRE	ASE POLYREX E	EM			
				INV.	TYPE	PWM					
TEMP CODE	T3C INVERTER-TEM	P-CODE 18	0								
TEMP =	160 C HP FR 60	C HF	'TO 90								
CT HZ FROM	1.0 CT HZ TO 60	ightharpoonup		_							
HTR-VOLTS	HTR-AMPS	HT	R-WATTS			MA	X. SPACE HEATE	ER TEMP		VT HZ FROM O	VT HZ TO 60

Parts List						
Part Number	Description	Quantity				
SA256687	SA 10H292X978G1	1.000 EA				
RA243475	RA 10H292X978G1	1.000 EA				
09FN3001B02	EXTERNAL FAN, PLASTIC	1.000 EA				
10CB1000A09E	CONDUIT BOX, MACH W/E-COAT	1.000 EA				
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA				
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 EA				
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA				
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 EA				
WD1000B16	T&B CX70TN TERMINAL	1.000 EA				
10XN2520K06	1/4-20 X 3/8" HX HD SCREWGRADE 5, ZINC P	1.000 EA				
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	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				
HA4017A11	1/8 X 2.75 GREASE EXT (F/S)	1.000 EA				
HA4017A03	.125 X 1.75 GREASE EXT (F/S)	1.000 EA				
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA				
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 EA				
HW5100A13	W4627-047 WVY WSHER	1.000 EA				
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA				
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA				
10FH1007P	FAN COVER, CAST W/EPOXY PRIMER	1.000 EA				
10EP1110A47E	PU ENDPLATE, MACH W/E-COAT	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				

Parts List (continued)		
Part Number	Description	Quantity
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
10XN3118K20	5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED	3.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 EA
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HW2501H29	KEY, 1/2 SQ X 3.375	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5001A14	DYNAPRO SEAL, CP MOTORS VC#2508050 (603	0.033 EA
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
10EP1110A44GE6	FREP, MACH W/E-COAT & MG1025N19	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	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
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.130 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA

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HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025N19	WILKOFAST, 778.50, RELIANCE BLUE-GREEN	0.070 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP3241	SS SUPER-E INV UL CSA-EEV PREM CC	1.000 EA
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA

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

AC Induction Motor Performance Data

Record # 47246 - Typical performance - not guaranteed values

Winding: 10WGX978-R014 Type: 1062M Enclosur

Nameplate Data							
Rated Output (HP)		20					
Volts		230/460					
Full Load Amps		52/26					
R.P.M.		1180					
Hz	60	Phase	3				
NEMA Design Code	А	A KVA Code H					
Service Factor (S.F.)		1.15					
NEMA Nom. Eff.	93	Power Factor	78				
Rating - Duty	40C AMB-CONT						
S.F. Amps							

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	89 LB-FT
Start Configuration	direct on line
Breakdown Torque	286.9 LB-FT
Pull-up Torque	113 LB-FT
Locked-rotor Torque	160.5 LB-FT
Starting Current	171.6 A
No-load Current	12.3 A
Line-line Res. @ 25°C	0.362 Ω
Temp. Rise @ Rated Load	47°C
Temp. Rise @ S.F. Load	59°C
Rotor inertia	7.59 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

			,	,			
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	61	72	78	80	81	79
Efficiency	88.5	92.5	93.3	93.2	92.6	91.7	92.8
Speed	1195	1191	1187	1183	1178	1173	1180
Line amperes	13.6	16.9	21	25.9	31.4	37.7	29.2

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





