

BALDOR® • RELIANCE

Product Information Packet

ECP4112T-4

20HP,880RPM,3PH,60HZ,324T,1256M,TEFC,F1

Part Detail							
Revision:	T	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1256M	Elec. Spec:	12WGY497	CD Diagram:	CD0006
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	12F904	Layout:	12LYF904
Frame:	324T	Mounting:	F1	Poles:	08	Created Date:	09-23-2011
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	12-15-2016
Leads:	3#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3241

CAT.NO.	ECP4112T-4		P/N			ENCLOSURE	TEFC	
SPEC.	12F904Y497	CC	010A	FRAME	324T	S/N		
HP	20		CLASS	F	HZ	60	DES	B
RPM	880		RPM MAX	1325	PH	3	KVA-CODE	G
VOLT	460		MOTOR WEIGHT	475				
AMP	30		SER.F.	1.15	PF	69	ODE BRG	6312
RATING	40C AMB-CONT		NEMA-NOM-EFF	90.2	DE BRG	6312		
			GREASE	POLYREX EM				
			INV.TYPE	PWM				
TEMP CODE	T3	INVERTER-TEMP-CODE	200					
TEMP =	200	C HP FR	60	C HP TO	90			
CT HZ FROM	6	CT HZ TO	60					
HTR-VOLTS		HTR-AMPS		HTR-WATTS		MAX. SPACE HEATER TEMP.		VT HZ FROM
								3
								VT HZ TO
								60

Parts List		
Part Number	Description	Quantity
SA231208	SA 12F904Y497	1.000 EA
RA218224	RA 12F904Y497	1.000 EA
10FN3001A02	310 FAN, PLASTIC 2.000 DIA. BORE	1.000 EA
10CB1000A04P	CONDUIT BOX, MACH W/EPOXY PRIMER	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
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
10XN2520K08	1/4-20 X .50 GRADE #5, STL, ZINC PLATE	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
HA4017A10	1/8X1.25 GREASE EXT (F/S)	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HA3400A13	STUD, 1/2-13 X 7" WELKER	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 EA
HA1005A04	SLINGER, OD 3.620, ID 1.98,	1.000 EA
HW5100A15	W4997-050 WVY WSHR (WB)	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
12EP1111A30P	SPL PUEP 312 BRG W/EPOXY	1.000 EA
12FH1002A33P	FAN COVER, MACH ,EPOXY PRIMER	1.000 EA
10XN5013K28	1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 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
HW2501H34	KEY, 1/2 SQ X 4.00	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
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 EA
12EP1111A35GP6	FR ENDPLATE, MACH W/EPOXY PRIMER & RELIA	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)	0.200 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

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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
HA6390A01	HOSE CLAMP FOR 3.12 DIA S.S. OR PLATED	1.000 EA
MG1025N19	WILKOFAS, 778.50, RELIANCE BLUE-GREEN	0.080 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3241	SS SUPER-E INV UL CSA-EEV PREM CC	1.000 EA
12PA1000	PACKAGING GROUP PRINT PK1024A06	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA

AC Induction Motor Performance Data

Record # 47242 - Typical performance - not guaranteed values

Winding: 12WGY497-R016	Type: 1256M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20			Full Load Torque	120 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	30			Breakdown Torque	282 LB-FT
R.P.M.	880			Pull-up Torque	137 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	162 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	144 A
Service Factor (S.F.)	1.15			No-load Current	16.39 A
NEMA Nom. Eff.	90.2	Power Factor	69	Line-line Res. @ 25°C	0.412 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	53°C
S.F. Amps				Temp. Rise @ S.F. Load	62°C
				Locked-rotor Power Factor	33.6
				Rotor inertia	10.7 LB-FT ²

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	63	70	72	74	71
Efficiency	84.9	89.9	90.8	90.5	89.9	88.1	90.1
Speed	895	892	888	884	879	872	881
Line amperes	17.41	20.54	24.67	29.93	36.18	45.14	33.9

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





