

BALDOR® • RELIANCE 

Product Information Packet

ECP4111T

25HP,1180RPM,3PH,60HZ,324T,1260M,TEFC,F1

Part Detail							
Revision:	X	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY116	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	12F904	Layout:	12LYF904	Poles:	06	Created Date:	01-07-2012
Base:	RG	Eff. Date:	08-21-2018	Leads:	9#8		

Specs			
Catalog Number:	ECP4111T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	324T	Inverter Code:	Inverter Duty
Frame Material:	Iron	KVA Code:	H
Output @ Frequency:	25.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	1260M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	79
	CSA	Product Family:	Super-E Chemical Processing
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Constant Torque Speed Range:	1.0	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	32.000 A @ 460.0 V	Shaft Rotation:	Reversible
	63.000 A @ 230.0 V	Shaft Slinger Indicator:	Shaft Slinger
	69.000 A @ 208.0 V	Speed Code:	Single Speed
Design Code:	A	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	NONE (OLD)
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None
		XP Temp Code:	T3

Nameplate NP3241

CAT.NO.	ECP4111T	P/N		ENCLOSURE	TEFC						
SPEC.	12F904Y116	CC	010A	FRAME	324T	S/N					
HP	25	CLASS	F	HZ	60	DES	A				
RPM	1180	RPM MAX	1800	PH	3	KVA-CODE	H				
VOLT	230/460	MOTOR WEIGHT	605								
AMP	63/32	SER.F.	1.15	PF	79	ODE BRG	6312	DE BRG	6312		
RATING	40C AMB-CONT	NEMA-NOM-EFF	93	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	1.0	CT HZ TO	60								
HTR-VOLTS		HTR-AMPS		HTR-WATTS		MAX. SPACE HEATER TEMP.		VT HZ FROM	0	VT HZ TO	60

Parts List		
Part Number	Description	Quantity
SA237169	SA 12F904Y116	1.000 EA
RA224104	RA 12F904Y116	1.000 EA
09FN3001B03SP	EXTERNAL FAN, PLASTIC	1.000 EA
10CB1000A203P	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
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 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
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
10XN5013K32	1/2-13 X 2.00" HEX HD GRD 5 (20051)	4.000 EA
12FH1002A33P	FAN COVER, MACH ,EPOXY PRIMER	1.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
XY5013A12	NUT, 1/2-13, HEX, STEEL, ZINC PLATED	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 SEALANT, CP MTR 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 (1200/bx) 5/18	1.000 EA
LB1002N	LABEL, MARINE DUTY (ON ROLLS)	1.000 EA
12EP1111A35GP6	FR ENDPLATE, MACH W/EPOXY PRIMER & RELIA	1.000 EA
HA3400A13	STUD, 1/2-13 X 7" WELKER	4.000 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 (US# 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

Product Information Packet: ECP4111T - 25HP,1180RPM,3PH,60HZ,324T,1260M,TEFC,F1

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	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
LC0181	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

Accessories		
Part Number	Description	Multiplier
12-1105	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 47247 - Typical performance - not guaranteed values

Winding: 12WGY116-R017	Type: 1260M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	25			Full Load Torque	111 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	63/32			Breakdown Torque	308 LB-FT
R.P.M.	1180			Pull-up Torque	117 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	171 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	198 A
Service Factor (S.F.)	1.15			No-load Current	13.8 A
NEMA Nom. Eff.	93	Power Factor	79	Line-line Res. @ 25°C	0.27033 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	46°C
S.F. Amps				Temp. Rise @ S.F. Load	56°C
				Rotor inertia	11.5 LB-FT ²

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	75	79	81	81	80
Efficiency	89.1	92.8	93.5	93.2	92.6	91.5	92.8
Speed	1195.4	1191.8	1188.2	1183.9	1179.3	1172.9	1181
Line amperes	15.6	19.7	25.4	31.9	39.2	49.1	36.3

Performance Graph at 460V, 60Hz, 25.0HP Typical performance - Not guaranteed values





