

BALDOR® • RELIANCE

Product Information Packet

ECR9304T

30HP,1770RPM,3PH,60HZ,286T,1072M,TEFC,F1

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1072M	Elec. Spec:	10WGZ351	CD Diagram:	CD0180
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	10J907	Layout:	10LYJ907
Frame:	286T	Mounting:	F1	Poles:	04	Created Date:	01-08-2015
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	07-18-2016
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3293

CAT.NO.	ECR9304T		P/N			ENCLOSURE	TEFC	
SPEC.	10J907Z351G1		CC	010A	FRAME	286T	S/N	
HP	30		CLASS	F	HZ	60	DES	A
RPM	1770	RPM MAX	2700		PH	3	KVA-CODE	G
VOLT	230/460		I.P.	55				
AMP	74/37		SER.F.	1.25	PF	81	ODE BRG	6311
RATING	40C AMB-CONT		NEMA-NOM-EFF	93.6	GREASE	POLYREX EM		
HTR-VOLTS		HTR-AMPS			HTR-WATTS	MAX. SPACE HEATER TEMP.		
	SFA 92/46		C HP FR	60	C HP TO	90	DE BRG	6312
			CT HZ FROM	6	CT HZ TO	60		
			MOTOR WEIGHT	465	VT HZ FROM	6	VT HZ TO	60
								INV.TYPE

Parts List		
Part Number	Description	Quantity
SA292169	SA 10J907Z351G1	1.000 EA
RA278286	RA 10J907Z351G1	1.000 EA
09FN3001D02	EXTERNAL FAN, PLASTIC	1.000 EA
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	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
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
HA4017A02	.125X2.50 GREASER EXTENS.F/S	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
10XN3118K36	5/16-18 X 2.25" HEX HD, GRADE 5	4.000 EA
10XN3118K44	5/16-18 X 2.75" HEX HD, GRADE 5	4.000 EA
10EP1108A01P	PULLEY ENDPLATE - 312 BRG.- ENCL., EPOXY	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
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10FH1007A24P	FAN COVER, MACH W/EPOXY PRIMER	1.000 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
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
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5001A14	DYNAPRO SEAL, CP MOTORS VC#2508050 (603	0.026 EA
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
10EP1110A06PE44	FREP, MACH W/E-COAT & MG1025G96	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	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
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
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

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MG1025G96	WILKOFAS SG, 779.7048, MOUSE GRAY #7048	0.070 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP3293	SS CRUSHER DUTY INV UL CSA-EEV PREM CC	1.000 EA
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 49559 - Typical performance - not guaranteed values

Winding: 10WGZ351-R001	Type: 1072M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	30			Full Load Torque	89.2 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	74/37			Breakdown Torque	237 LB-FT
R.P.M.	1770			Pull-up Torque	156 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	233 LB-FT
NEMA Design Code	A	KVA Code	G	Starting Current	221 A
Service Factor (S.F.)	1.25			No-load Current	14.1 A
NEMA Nom. Eff.	93.6	Power Factor	81	Line-line Res. @ 25°C	0.219 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
S.F. Amps	92/46			Temp. Rise @ S.F. Load	87°C
				Locked-rotor Power Factor	34.6
				Rotor inertia	5.69 LB-FT ²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	69	78	81	83	83	83
Efficiency	90.8	93.8	94.3	93.9	93.3	92.2	93.3
Speed	1793	1786	1779	1771	1763	1752	1763
Line amperes	16.5	21.9	28.7	36.9	45.5	55	45.5

Performance Graph at 460V, 60Hz, 30.0HP Typical performance - Not guaranteed values





