

BALDOR® • RELIANCE

Product Information Packet

EM4114T

50HP,3540RPM,3PH,60HZ,326TS,1252M,TEFC,F

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1252M	Elec. Spec:	12WGY291	CD Diagram:	CD0180
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	12M09	Layout:	12LYM009
Frame:	326TS	Mounting:	F1	Poles:	02	Created Date:	05-06-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	05-01-2014
Leads:	9#8					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2138L								
CAT.NO.	EM4114T	P/N		ENCLOSURE		TEFC		
SPEC.	12M009Y291G1	CC	010A	FRAME		326TS	S/N	
HP	50	CLASS	F	HZ		60		
RPM	3540	PH	3	DES		A		
VOLT	208-230/460	KVA-CODE	H	ODE BRG		6311	DE BRG	6312
AMP	122-112/56	USABLE AT 208V						
RATING	40C AMB-CONT	GREASE	POLYREX EM					
NEMA-NOM-EFF	93	PF	90	SER.F.		1.15		
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.				

Parts List		
Part Number	Description	Quantity
SA194422	SA 12M009Y291G1	1.000 EA
RA182009	RA 12M009Y291G1	1.000 EA
37FN3002C04	EXFN, PLASTIC, 6.00 OD, 2.000 ID	1.000 EA
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	1.000 EA
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 EA
12GS1000	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
12EP1107A05	FR ENDPLATE, MACH 324-6T	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
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
12EP1106A01	PU ENDPLATE, MACH 324-6T	1.000 EA
10XN3118K36	5/16-18 X 2.25" HEX HD, GRADE 5	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 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
HA3400A13SP	STUD, 1/2-13 X 7" WELKER	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
12FH1002SP	FAN COVER, CAST QF,WAUPACA QUALITY	1.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
10CB3500	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
HW2501H18	KEY, 1/2 SQ X 2.000	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.200 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.080 GA
85XU0407A04	#4-7 X 1/4 DRIVE PIN	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C02	SUPER-E (STOCK CTN LABEL SUPER-E WITH FL	4.000 EA
LC0181	CONNECTION LABEL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
NP2138L	ALUM SUPER-E UL CSA-EEV PREM CC (300	1.000 EA
12PA1000	PACKAGING GROUP COMBINED PRINT PK1024A06	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA

Accessories		
Part Number	Description	Multiplier
12-1105	C FACE KIT	A8
12EP1501A03SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 31649 - Typical performance - not guaranteed values

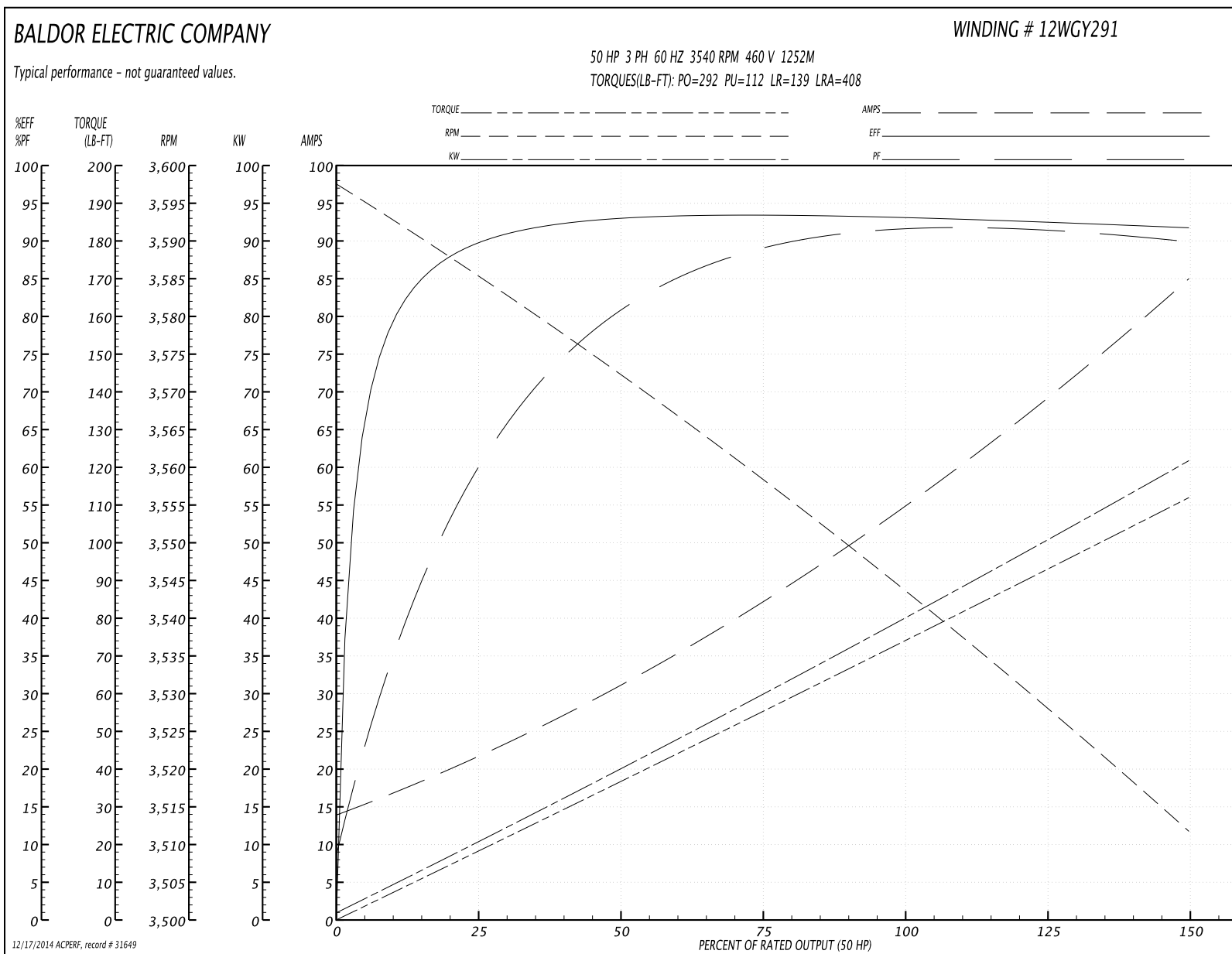
Winding: 12WGY291-R001	Type: 1252M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	50			Full Load Torque	74.4 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	122-112/56			Breakdown Torque	292 LB-FT
R.P.M.	3540			Pull-up Torque	112 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	139 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	408 A
Service Factor (S.F.)	1.15			No-load Current	14.9 A
NEMA Nom. Eff.	93	Power Factor	90	Line-line Res. @ 25°C	0.11257 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	77°C
S.F. Amps				Temp. Rise @ S.F. Load	95°C
				Rotor inertia	4.07 LF ²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	82	88	90	91	90	91
Efficiency	91.1	93.8	94.2	93.9	93.2	92.3	93.5
Speed	3584.1	3571.8	3558.2	3544.1	3528.2	3511.2	3535
Line amperes	20.4	30.8	42.9	55.8	69.5	84.6	64

Performance Graph at 460V, 60Hz, 50.0HP Typical performance - Not guaranteed values





CD0180