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Product Information Packet

EM4114T-5

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

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Part Detail							
Revision:	H	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Prod. Type:**	1252M	**Elec. Spec:**	12WGY278	**CD Diagram:**	CD0006
Enclosure:	TEFC	**Mfg Plant:**		**Mech. Spec:**	12M09	**Layout:**	12LYM009
Frame:	326TS	**Mounting:**	F1	**Poles:**	02	**Created Date:**	04-22-2010
Base:	RG	**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	12-15-2015
Leads:	3#8					**Replaced By:**	
Literature:		**Elec. Diagram:**					

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Nameplate NP3443L

CAT.NO.	EM4114T-5			P/N				ENCLOSURE	TEFC
SPEC.	12M009Y278G1	CC	010A	FRAME	326TS			S/N	
HP	50			CLASS	F	HZ	60		
RPM	3540			PH	3	DES	A		
VOLT	575			KVA-CODE	H	ODE BRG	6311	DE BRG	6312
AMP	45			USABLE AT 208V					
RATING	40C AMB-CONT			NEMA-NOM-EFF	93			GREASE	POLYREX EM
PF	89	SER.F.	1.15	VPWM INVERTER READY					
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.					

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Parts List

Part Number	Description	Quantity
SA193936	SA 12M009Y278G1	1.000 EA
RA181530	RA 12M009Y278G1	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
12GS1000SP	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
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
HA3400A13	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
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 EA

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Parts List (continued)

Part Number	Description	Quantity
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA
10CB3500	CONDUIT BOX LID, CAST	1.000 EA
10GS1000SP	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) 11/14	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
MJ1000A02	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,	0.125 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3443L	SS SUPER-E UL CSA-EEV PREM CC	1.000 EA

12PA1000	PACKAGING GROUP PRINT PK1024A06	1.000 EA

Accessories

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

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AC Induction Motor Performance Data

Record # 30951 - Typical performance - not guaranteed values

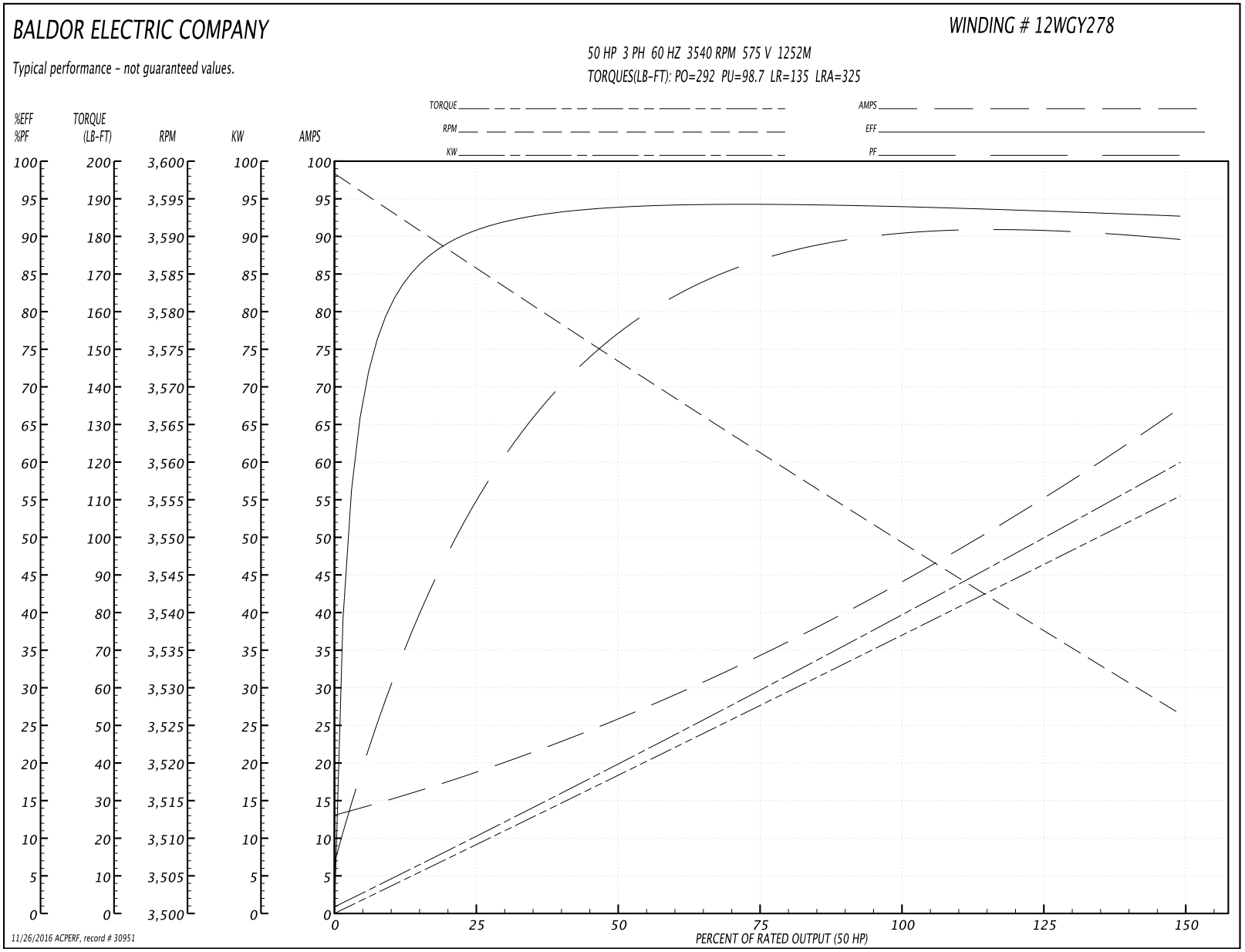
Winding: 12WGY278-R001	**Type:** 1252M	**Enclosure:** TEFC

Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	50			Full Load Torque	74.2 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	45			Breakdown Torque	292 LB-FT
R.P.M.	3540			Pull-up Torque	98.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	135 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	325 A
Service Factor (S.F.)	1.15			No-load Current	13.9 A
NEMA Nom. Eff.	93	Power Factor	89	Line-line Res. @ 25ºC	0.174 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	80°C
S.F. Amps				Temp. Rise @ S.F. Load	98°C
				Locked-rotor Power Factor	21
				Rotor inertia	4.07 LB-FT2

Load Characteristics 575 V, 60 Hz, 50 HP

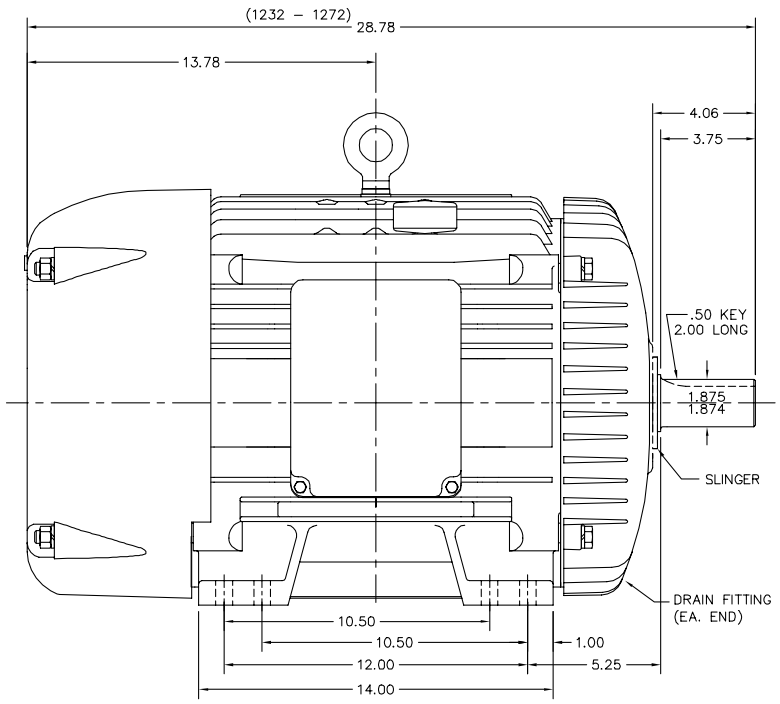
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	79	86	89	90	90	90
Efficiency	90.6	93.6	94.3	94.1	93.3	92.7	93.6
Speed	3585	3573	3561	3550	3538	3526	3543
Line amperes	17.7	25.4	34.6	44.8	55.7	66.6	51.3

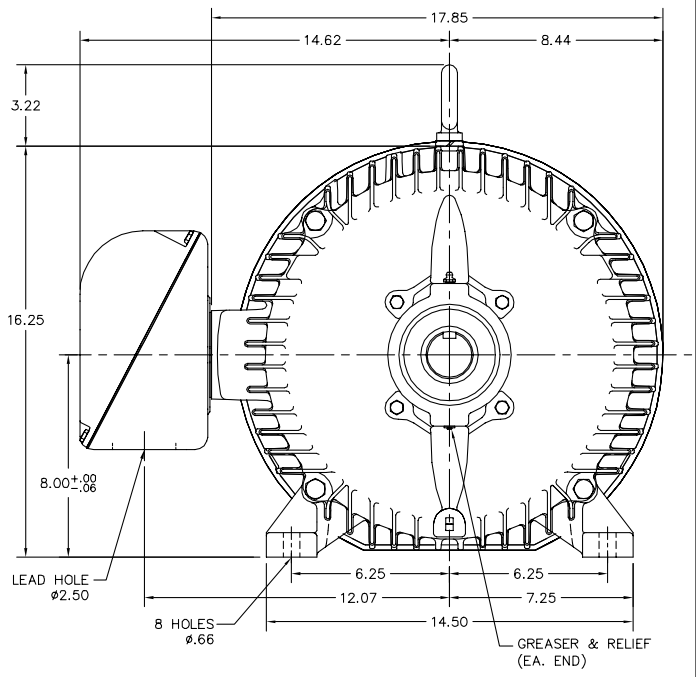
Performance Graph at 575V, 60Hz, 50.0HP Typical performance - Not guaranteed values



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12LYM009





12LYM009

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: CHG 12SF1109A18 TO 12SF1109A01 AND CHG DRAINS		
REV. LTR: D	VERSION: 03	TDR: 000000850961
FILE: \AAA\00054\443	REVISED: 03:36:50 04/29/2014	BY: ENBRISO
MTL: –		

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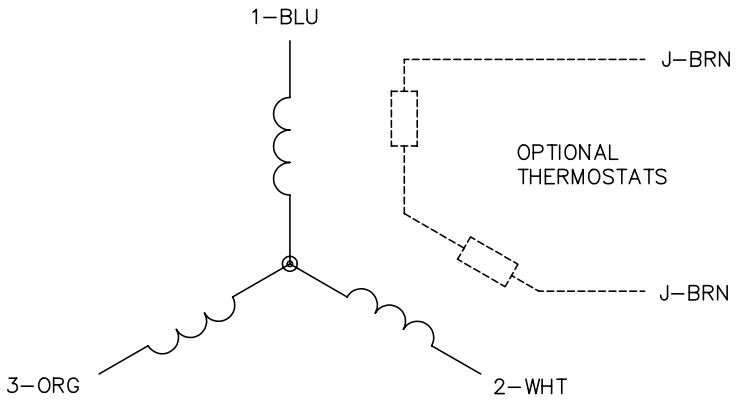
HORZ TEFC 324–6TS; 37FN3002A04

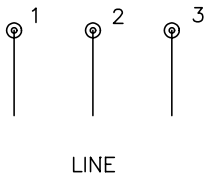
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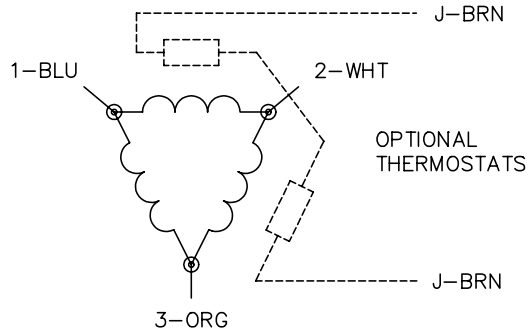
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/21/99 4:02	TDR: 0171435
9000CD		FILE: AAA00005141	MDL: –
		MTL: –	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006

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