BALDOR • RELIANCE

Product Information Packet

EM2543T-CI

50HP,1775RPM,3PH,60HZ,326T,1256M,OPEN,F1

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Part Detail

Revision:	V	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	12WGX320	**CD Diagram:**	CD0180	**Mfg Plant:**	
Mech. Spec:	12D01	**Layout:**	12LYD001	**Poles:**	04	**Created Date:**	
Base:	RG	**Eff. Date:**	02-26-2018	**Leads:**	9#8		

Specs

Catalog Number:	EM2543T-CI	**Heater Indicator:**	No Heater
Enclosure:	OPEN	**Insulation Class:**	F
Frame:	326T	**Inverter Code:**	Inverter Ready
Frame Material:	Iron	**KVA Code:**	G
Output @ Frequency:	50.000 HP @ 60 HZ	**Lifting Lugs:**	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 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:**	1256M
Agency Approvals:	UR	**Mounting Arrangement:**	F1
	CSA EEV	**Power Factor:**	83
	CSA	**Product Family:**	General Purpose
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

Current @ Voltage:	120.000 A @ 230.0 V
	126.000 A @ 208.0 V
	60.000 A @ 460.0 V
Design Code:	A
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None

Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	No Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
Starting Method:	Direct on line
Thermal Device - Bearing:	NONE (OLD)
Thermal Device - Winding:	None
Vibration Sensor Indicator:	No Vibration Sensor
Winding Thermal 1:	None
Winding Thermal 2:	None

Nameplate NP3554LUA

CAT.NO.	EM2543T-CI			**P/N**				**ENCL**	OPEN
SPEC.	12D001X320G1	**CC**	010A	**FRAME**	326T			**SER.NO.**	
HP	50			**CLASS**	F	**HZ**	60		
RPM	1775			**PH**	3	**DES**	A		
VOLTS	230/460			**CODE**	G			**ODE BRG**	6311
AMPS	120/60			**USABLE AT 208V**	126			**DE BRG**	6311
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	94.5			**GREASE**	POLYREX EM
PF	83	**SER.F.**	1.15	**VPWM INVERTER READY**					
USABLE AT	50Hz 50Hp 190/380V 136/68A			SF 1.0					
HTR-VOLTS		**HTR-AMPS**		**MAX. SPACE HEATER TEMP.**					

Parts List

Part Number	Description	Quantity
SA067474	SA 12D001X320G1	1.000 EA
RA061509	RA 12D001X320G1	1.000 EA
10CB3000SP	STD KO BOX MODEL 310,312,314 MTRS W/2.00	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
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
12EP1200A04	FR ENDPLATE, MACH	1.000 EA
10XN2520K08	1/4-20 X .50 GRADE #5, STL, ZINC PLATE	3.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10XN5013K80	HEX HD , 1/2-13 X 5.00 LGGRADE 5,ZINC PL	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
12EP1200A03	ENDPLATE, MACH	1.000 EA
10XN2520K08	1/4-20 X .50 GRADE #5, STL, ZINC PLATE	3.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10XN3816K44	3/8-16 X 2.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
10XN3816K44	3/8-16 X 2.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
10XN5013K80	HEX HD , 1/2-13 X 5.00 LGGRADE 5,ZINC PL	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA

Parts List (continued)

Part Number	Description	Quantity
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	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
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.080 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
12AD2000A01	AIR DEFLECTOR	1.000 EA
12AD2000A01	AIR DEFLECTOR	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP3554LUA	SS SUPER-E VPWM INV READY UL CSA-EEV PRE	1.000 EA
12PA1000	PACKAGING GROUP PRINT PK1024A06	1.000 EA

AC Induction Motor Performance Data

Record # 56462 - Typical performance - not guaranteed values

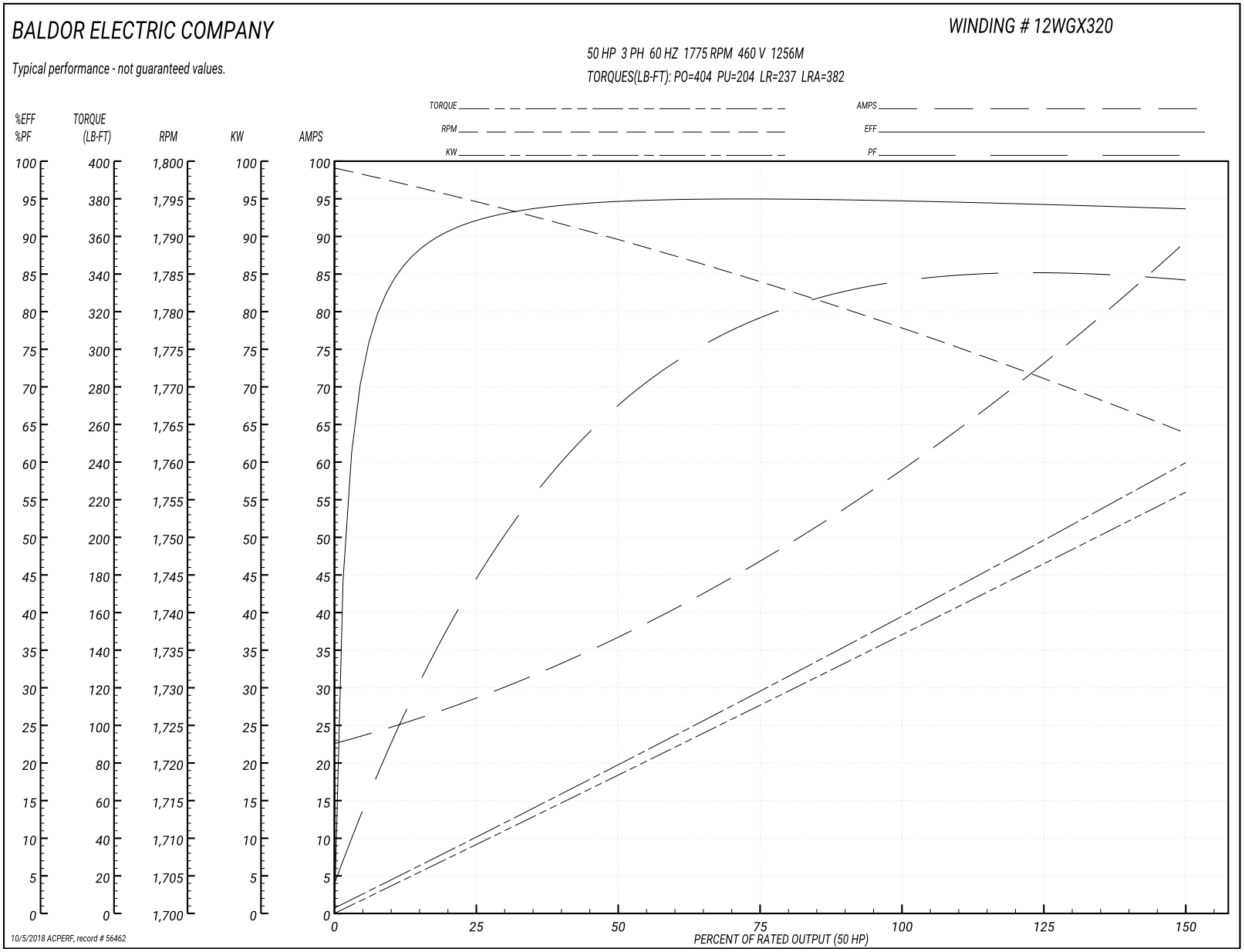
Winding: 12WGX320-R001	**Type:** 1256M	**Enclosure:** OPEN

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	50			Full Load Torque	148 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	120/60			Breakdown Torque	404 LB-FT
R.P.M.	1775			Pull-up Torque	204 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	237 LB-FT
NEMA Design Code	A	KVA Code	G	Starting Current	382 A
Service Factor (S.F.)	1.15			No-load Current	23.6 A
NEMA Nom. Eff.	94.5	Power Factor	83	Line-line Res. @ 25ºC	0.13209 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	41°C
S.F. Amps				Temp. Rise @ S.F. Load	50°C
				Locked-rotor Power Factor	27.1

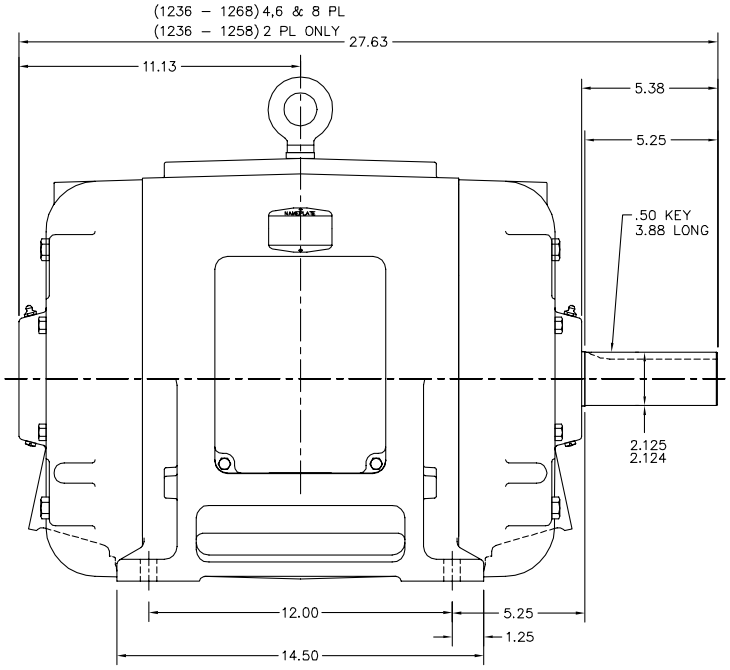
Load Characteristics 460 V, 60 Hz, 50 HP

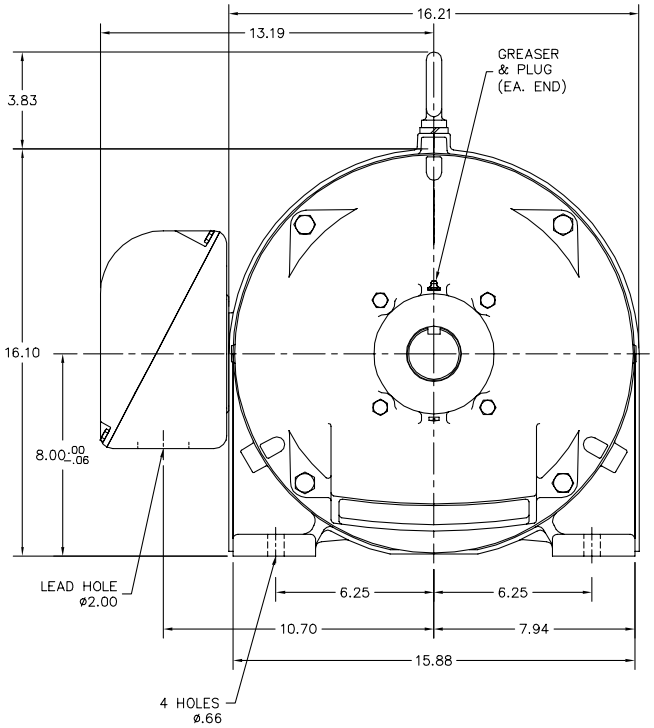
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	79	83	85	85	84
Efficiency	92.1	94.8	95.1	94.8	94.3	93.5	94.5
Speed	1794.9	1789.6	1784.2	1777.7	1771.1	1764	1774
Line amperes	27.4	35.9	47	59.6	73.4	88.6	67.9

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



12LYD001





12LYD001

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

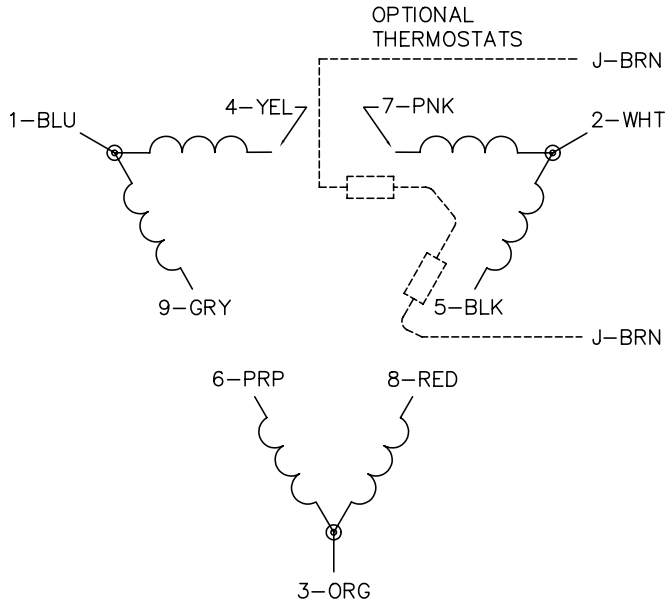
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MTL: –		

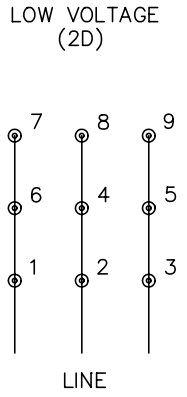
BALDOR

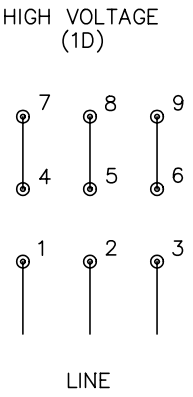
HORZ OPEN 326T

SH 1 of 1

CD0180







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
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