

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EM2550T**

**100HP,3540RPM,3PH,60HZ,365TS,4266M,OPSB**

Part Detail							
Revision:	N	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	42WGW937	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	42E212	Layout:	42LYE212	Poles:	02	Created Date:	05-14-2012
Base:	RG	Eff. Date:	08-21-2018	Leads:	9#4		

Specs			
Catalog Number:	EM2550T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	365TS	KVA Code:	G
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	100.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 4 AWG
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	230.0 V @ 60 HZ	Motor Type:	4266M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	91
	UR	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:	244.000 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding

	220.000 A @ 230.0 V	<b>Shaft Rotation:</b>	Reversible
	110.000 A @ 460.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	A	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 2:</b>	None

Nameplate NP2138LUA												
CAT.NO.	EM2550T			P/N				ENCLOSURE	OPSB			
SPEC.	42E212W937		CC	010A		FRAME	365TS		S/N			
HP	100			CLASS	F		HZ	60				
RPM	3540			PH	3		DES	A				
VOLT	230/460			KVA-CODE	G		ODE BRG	6311		DE BRG	6313	
AMP	220/110			USABLE AT 208V	244							
RATING	40C AMB-CONT			GREASE	POLYREX EM							
NEMA-NOM-EFF	93.6		PF	91		SER.F.	1.15					
HTR-VOLTS	50Hz 100Hp 190/380V 270/135A					SF 1.0						
	HTR-AMPS											

Parts List		
Part Number	Description	Quantity
SA244595	SA 42E212W937	1.000 EA
RA231478	RA 42E212W937	1.000 EA
HA6360	LIFTING LUG FOR 42 FRAME MOTORS.	2.000 EA
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 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
10CB3002	CONDUIT BOX CAST W/3.625 LEAD HOLE	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
42EP3200A01	FR ENDPLATE, MACH	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
42EP1202A01	STD PU ENDPLATE MODEL 42 313 BRG.	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
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	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 (2100/bx) 4/22	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
42AD2001B01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 EA
42AD2001B01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 EA
HA3151A09	THRUBOLT STUD 1/2-13 X 22.000	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP2138LUA	ALUM SUPER-E UL CSA-EEV PREM CC (300SER)	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA
PE-0000013	ZRTG PE ASSEMBLY	1.000 EA

<b>Accessories</b>		
<b>Part Number</b>	<b>Description</b>	<b>Multiplier</b>
42-1400	C FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 38382

Typical performance - not guaranteed values

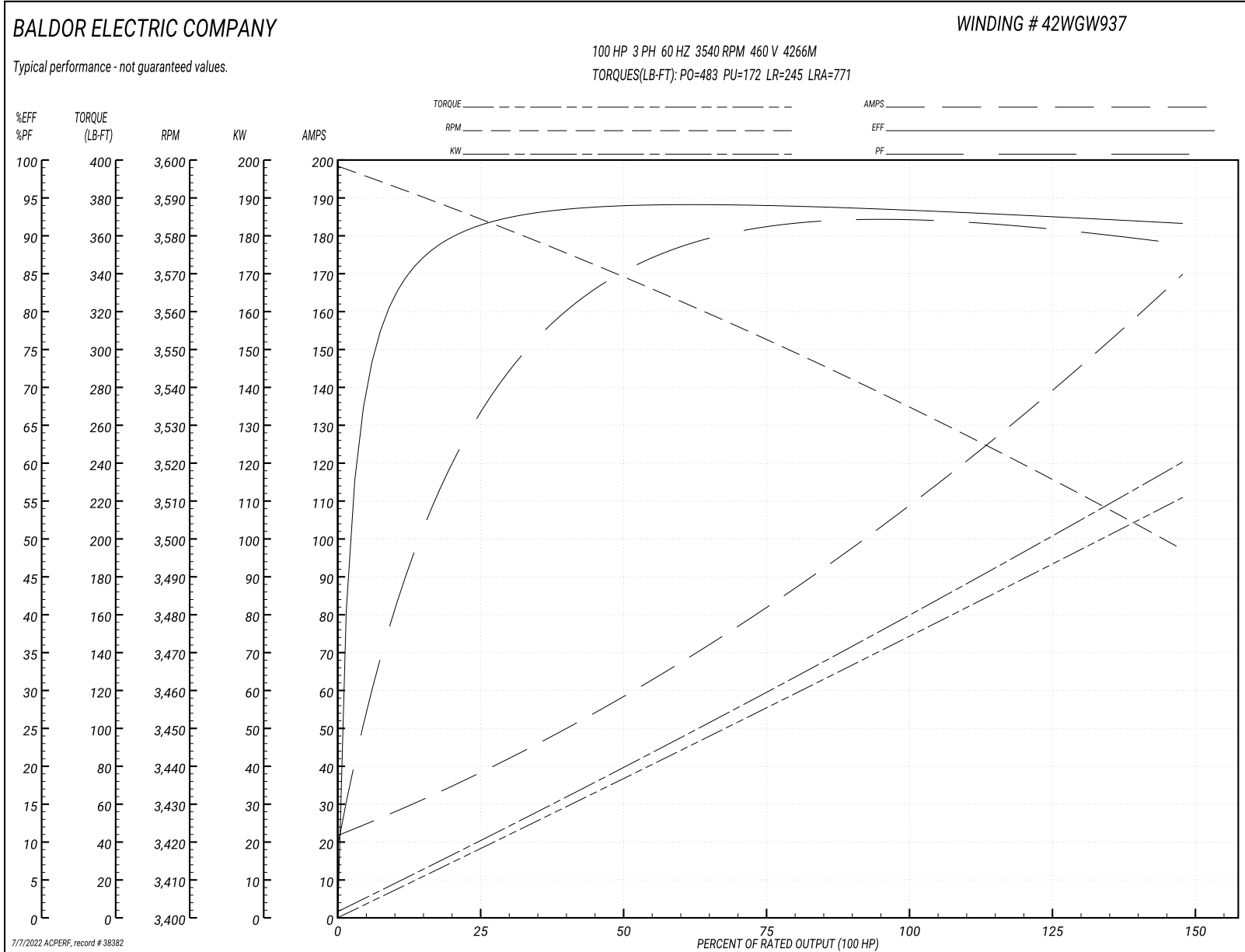
<b>Winding:</b> 42WGW937-R001		<b>Type:</b> 4266M		<b>Enclosure:</b> OPSB	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	100	<b>Full Load Torque</b>	148 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	220/110	<b>Breakdown Torque</b>	483 LB-FT		
<b>R.P.M.</b>	3540	<b>Pull-up Torque</b>	172 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	245 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	G	<b>Starting Current</b>	771 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	23.5 A		
<b>NEMA Nom. Eff.</b>	93.6 <b>Power Factor</b>	91	<b>Line-line Res. @ 25°C</b>	0.0539 Ω	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	45°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	55°C		
		<b>Locked-rotor Power Factor</b>	21		
		<b>Rotor inertia</b>	5.16 LB-FT <sup>2</sup>		

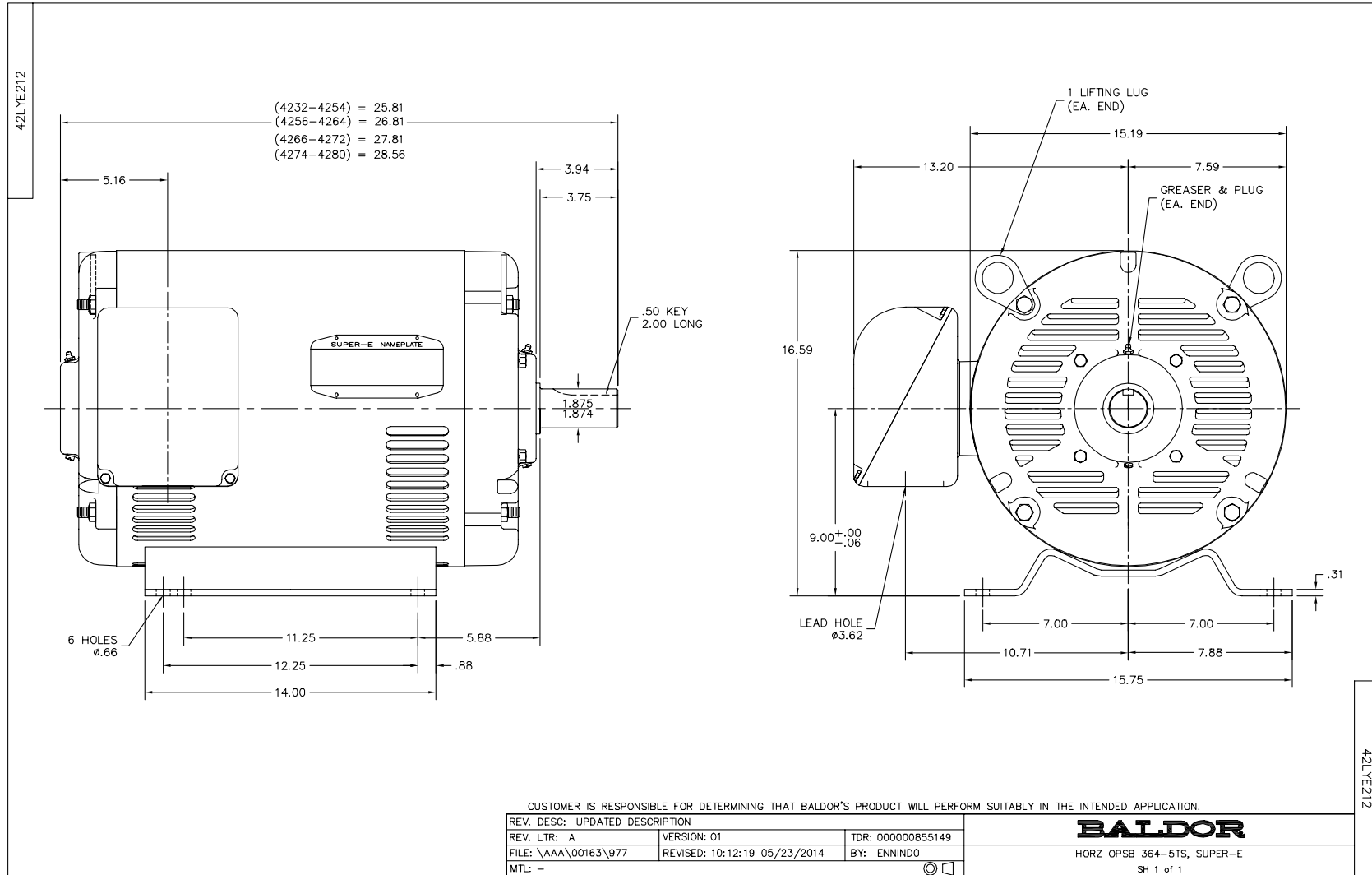
**Load Characteristics 460 V, 60 Hz, 100 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	72	87	90	91	91	89	91
<b>Efficiency</b>	91.3	93.9	94	93.6	92.7	91.6	93
<b>Speed</b>	3584	3568	3552	3536	3518	3496	3525
<b>Line amperes</b>	36.1	57.7	82.8	110	138	169	127



Performance Graph at 460V, 60Hz, 100.0HP Typical performance - Not guaranteed values

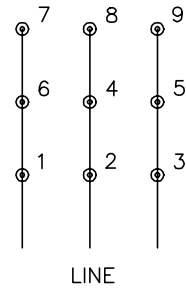




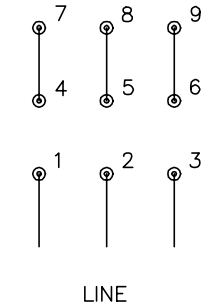
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



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

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**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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