

Ballasts

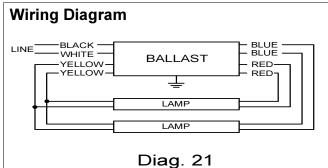
Ambistar

RELB2S40N

by (Signify

Electrical Specifications at 120V

Lamp Type	Num. of	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI	Ballast Factor	MAX THD	Power Factor	MAX Lamp Current Crest	B.E.F.
	Lamps				Watts)		%		Factor	
F30T12	1	30	50/10	0.25	30	0.95	20	0.98	1.7	3.17
F30T12	2	30	50/10	0.48	58	0.93	20	0.98	1.7	1.60
F40T12	1	40	50/10	0.33	39	0.91	20	0.99	1.7	2.33
* F40T12	2	40	50/10	0.61	72	0.87	20	0.99	1.7	1.21



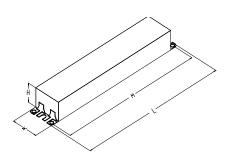
The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.
Black	22	55.9
White	22	55.9
Blue	26	66
Red	26	66
Yellow	36	91.4
Gray		0
Violet		0

	in.	cm.
Yellow/Blue		0
Blue/White		0
Brown		0
Orange		0
Orange/Black		0
Black/White		0
Red/White		0
-		

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
9.5 "	1.3 "	1.0 "	8.9 "
9 1/2	1 3/10	1	8 9/10
24.1 cm	3.3 cm	2.5 cm	22.6 cm







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RELB-2S40-N			
Brand Name	AMBISTAR		
Ballast Type	Electronic		
Starting Method	Rapid Start		
Lamp Connection	Series		
Input Voltage	120		
Input Frequency	60 HZ		
Status	Active		

Notes:

Section I - Physical Characteristics

- 1.1 Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
- 1.2 Ballast shall be provided with integral leads or poke-in wire trap connectors color coded per ANSI C82.11.

Section II - Performance Requirements

- 2.1 Ballast shall be _____ (Instant or Rapid) Start.
- 2.2 Ballast shall provide Independent Lamp Operation (ILO) for Instant Start ballasts allowing remaining lamp(s) to maintain full light output when one or more lamps fail.
- 2.3 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power
- 2.4 Ballast shall operate from 60 Hz input source of 120V with sustained variations of +/- 10% (voltage and frequency).
- 2.5 Ballast shall be high frequency electronic type and operate lamps at a frequency above 42 kHz to avoid interference with infrared devices and eliminate visible flicker.
- 2.6 Ballast shall have a Power Factor for primary lamp as follows: greater than 0.98 for RCF and RELB models or greater than 0.50 for REB and RMB models.
- 2.7 Fixed Output Ballast shall have a minimum ballast factor for primary lamp as follows: 0.85 for linear lamps or 1.0 for CFL lamps.
- 2.8 Dimming Ballast shall have a minimum ballast factor of 0.85 at maximum light output and 0.15 at minimum light output for primary lamp.
- 2.9 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
- 2.10 Ballast input current shall have Total Harmonic Distortion (THD) when operated at nominal line voltage with primary lamp as follows: less than 10% for RCF models, less than 20% for RELB models or less than 150% for REB and RMB models.
- 2.11 Ballast shall have a Class A sound rating.
- 2.12 Ballast shall have a minimum starting temperature for primary lamp as follows: 0°F/-18°C for RCF, REB and RMB models, 50°F/10°C for Dimming Ballasts or 50°F/10°C for standard T12 lamps and 60°F/16°C for energy-saving T12 lamps.
- 2.13 Ballast shall provide Lamp EOL Protection Circuit for CFL and T5 lamps.
- 2.14 Ballast shall tolerate sustained open circuit and short circuit output conditions.
- 2.15 Dimming Ballast shall ignite the lamps at any light output setting without first going to another output setting.

Section III - Regulatory Requirements

- 3.1 Ballast shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Ballast shall be Underwriters Laboratories (UL) listed, Class P and Type 1 Outdoor (and Type CC for RMB models); and Canadian Standards Association (CSA) certified where applicable.
- 3.3 Ballast for CFL lamps shall be rated for use in air-handling spaces.
- 3.4 Ballast shall comply with ANSI C62.41 Category A for Transient protection.
- 3.5 Ballast shall comply with ANSI C82.11 where applicable.
- 3.6 Ballast shall comply with the requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, Consumer (Class B) for EMI/RFI (conducted and radiated).
- 3.7 Ballast shall comply with NEMA 410 for in-rush current limits.

Section IV - Other

- 4.1 Ballast shall be manufactured in a factory certified to ISO 9001 Quality System Standards.
- 4.2 Ballast shall carry a warranty from date of manufacture against defects in material or workmanship as follows:

RCF models for three years, including replacement, for operation at a maximum case temperature of 85°C

RELB models for three years, including replacement, for operation at a maximum case temperature of 70°C

RMB models for two years, material only, for operation at a maximum case temperature of 65°C

REB T8 models for two years, material only, for operation at a maximum case temperature of 70°C

REB-4P32-N Maximum Case Temperture is 90° for two years

Ambistar RELB2S40N

REB CFL models for two years, material only, for operation at a maximum case temperature of 90°C or 40°C ambient.

REB CFL dimming models for two years, material only, for operation at a maximum case temperature of 65°C

- 4.3 Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.
- 4.4 Ballast shall be controlled by a compatible Ambistar two-wire dimmer. When input voltage to dimmer is 120V, control voltage to the ballast (from the dimmer) shall be 120V at full light output and 56V at minimum light output.
- 4.4 Ballast shall be Philips Advance part # _____ or approved equal.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

