

- Configurable constant current output via DIP switch 120, 150, 180 and 200mA
- Dimmable constant current driver
- Dimmable with leading edge or trailing edge dimmer
- Smooth dimming compatible with most dimmer
- Dimming range from 1...100%
- Independent design
- Flicker-free, complying with CE Erp directive
- Push wire connections
- Protections: opencircuit, shortcircuit, overload, overtemperature
- SELV equivalent
- Suitable for protection class I&II luminaires



Bailey code	Nominal voltage (V)	Nominal current (A)	Power factor (λ)	THD (%)	Max. output (W)	Output current (mA)	Output voltage (V)	No Load voltage (V)	Efficiency Full Load (%)
147279	220-240	0.06	0.95	25	6.2	120	30-52	59	77
					7.8	150	30-52	59	79
					9.0	180	26-50	59	81
					9.0	200	26-45	59	81

Note: 1. The product picture is for reference only. For details, please refer to the actual product.

2. Current adjustment is performed via DIP switches. See "DIP Switch Setting" instructions for details.

3. All parameters NOT specially mentioned are measured at 25°C of ambient temperature, 230VAC input, 50Hz, full load and after warm-up.

Input

Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range	AC Input	198VAC	230VAC	264VAC
	DC Input (Disabled under dimming)	176VDC	--	280VDC
Input Frequency Range	AC Input	47Hz	50/60Hz	63Hz
No-load Power Consumption	@230VAC, 50Hz	--	--	N/A
Inrush Current	Cold start@230VAC, 50Hz, full load	5A/300us		
Max.units Per Circuit Breaker*	B10	35		
	B13	46		
	B16	56		
	B20	70		
	C10	74		
	C13	96		
	C16	118		
	C20	148		

Note: *These are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker. Calculation uses typical values from ABB series S200 as a reference. Actual values may differ due to used circuit breaker types and installation environment.

Output

Parameter	Condition	Min.	Typ.	Max.
Output Accuracy	@230VAC, 50Hz, full load, 120mA/150mA	--	±8%	--
	@230VAC, 50Hz, full load, 180mA/200mA	--	±5%	--
Ripple & Noise*	Low frequency < 120Hz, @230VAC, 50Hz, full load	--	--	20%
Pst LM	@230VAC, 50Hz, full load	--	--	1
SVM	@230VAC, 50Hz, full load	--	--	0.4
Galvanic Isolation	Isolated			
Over-Temperature Protection (OTP)	Re-power on to Recover If Fault Is Removed			
Short-Circuit Protection (SCP)	Re-power on to Recover If Fault Is Removed			
Over-Voltage Protection (OVP)	Re-power on to Recover If Fault Is Removed			

Note: *Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.

General

Parameter	Condition	Value
Ambient Temperature Range t_a		-20 ... +45°C
Maximum Case Temperature t_c	Measured on t_c point indicated of the product label	85°C
Max. case Temp. In Fault Condition		110°C
Storage Temperature Range		-20...70°C
Relative Humidity	Non condensing	5...85%
Surge Transient Protection	L-N L/N-PE	2 2kV
Environmental Rating		Indoor
IP Rating		IP20
Mains Switching Cycles		>100,000
Expected Lifetime	$t_{cmax}=85^{\circ}\text{C}$, 0.2%/1,000h failure rate	50,000h

Dimming

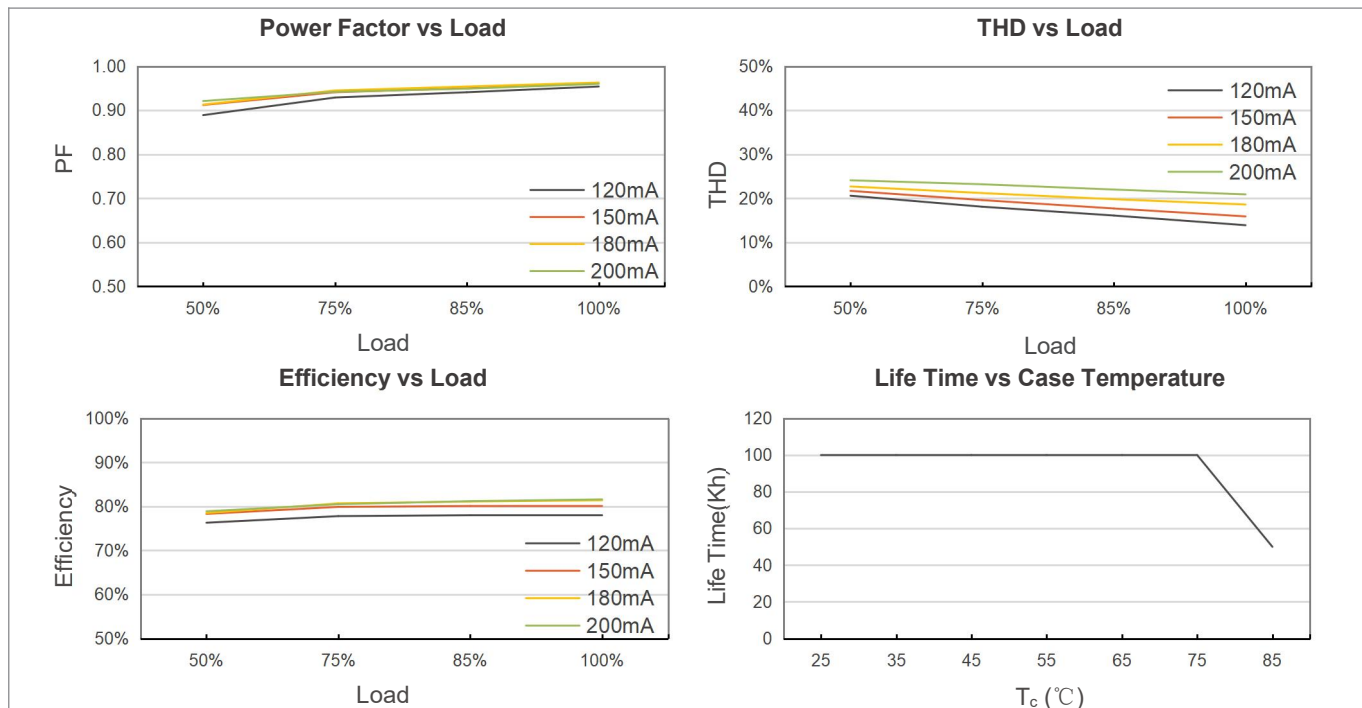
Dimmable	Yes
Dimming control	Leading/Trailing edge
Dimming range	1-100%

Physical

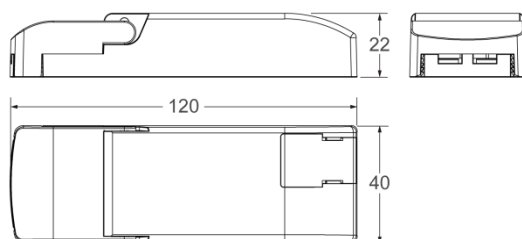
Housing Material	PC
Type of Connection	Push terminal
Dimensions (LxWxH)	120x40x22mm
Mounting Hole Spacing	11.5x20mm ϕ 3.4 mm
Weight	65g

Standards

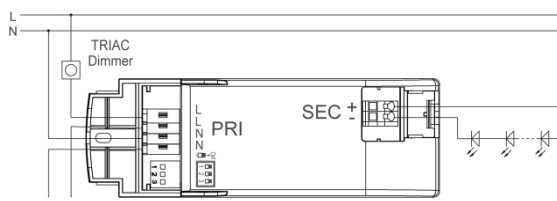
Safety Standards	EN 61347-1, EN 61347-2-13
Performance	EN 62384
EMC Standards	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547



Dimensions (mm)



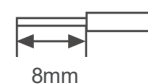
Wiring diagram



Wire preparation:

PRI: 0.75-1.5mm²

SEC: 0.5-1.5mm²



Note: 1. Hot plug-in is not supported. Always connect or disconnect LED loads with the power completely turned off.

2. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

3. For loop-through wiring, the maximum input current should be less than 9A.

4. When 120mA output and using a Schneider SBD200LED dimmer, if the maximum brightness exhibits an on/off/on/off... flickering condition, adjust the dimmer's MAX value.

DIP Switch setting

Output current	DIP switch		
	1	2	3
120mA (Default)	-	-	-
150mA	ON	-	-
180mA	ON	ON	-
200mA	ON	ON	ON

Always turn off the power before adjusting the current via the DIP switch.