BULL HPFU

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT | constant VOLTAGE

UL-CLASS2 CSA-LVLE | 05 | 100 | EL | SELV 60V

RIPPLE FREE | Pst LM ≤ 1 SVM ≤ 0,4

1÷2kV DIFF. 2kV COMM. | SEC. SWITCH | SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC(1)	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
BULL 9W 250mA HPFU	141133	6(2)/9	2...36	250 mA cost.	39	-20...+55	80	0,88 C	79 %
BULL 8W 350mA HPFU	141132	6(2)/8	2...23	350 mA cost.	24	-25...+55(2)/60	80	0,87 C	78 %
BULL 6W 500mA HPFU	141131	6	2...12,6	500 mA cost.	13	-25...+50(2)/55	75	0,8 (0,9(2)) C	72 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
Light output level in DC operation: Factory default 100% EOFi=1
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1

Rated Voltage
Tensione Nominale
100 ÷ 127 V (2)
220 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
90 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
176 ÷ 275 V

Power - Potenza
0 ÷ 9 W

iTHD
≥ 40% (1)

Output current ripple
≤ 3% (1)

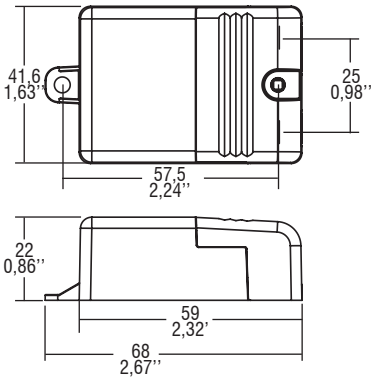
Standards compliance
CSA C22.2 no. 250
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
UL 1310
UL 8750

Max. pcs for CB B16A
(see page info17)
50 pcs

In rush current
20A 170μsec

IP 20 | SCREW FIXING | Ø47 1,85''

Weight - Peso:
gr. 40 / 1,40 oz.
Pcs - Pezzi 75



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)

Features
- IP20 independent driver, for indoor use.
- Class II protection against electric shock for direct or indirect contact.
- Supplied with terminal cover and cable retainer.
- Input and output terminal blocks on the same side (wire cross-section up to 2,5 mm² / AWG13).
- Single terminal block on primary and secondary circuits.
- Clamping screws on primary and secondary circuits for cables with diameter: min. 3 mm - max. 6 mm.
- Protections:
  - against overheating;
  - against short circuits;
  - against mains voltage spikes;
  - against overloads.

Caratteristiche
- Alimentatore indipendente IP20, per uso interno.
- Protetto in classe II contro le scosse elettriche per contatti diretti e indiretti.
- Fornito di coprimorsetto e serracavo.
- Morsetti di entrata e uscita sullo stesso lato (sezione cavo fino a 2,5 mm² / AWG13).
- Singola morsettiera su primario e secondario.
- Serracavo su primario e secondario per cavi di diametro: min. 3 mm - max. 6 mm.
- Protezioni:
  - termica;
  - contro il cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.

7 YEARS WARRANTY 3% FAILURE RATE | 10 YEARS WARRANTY 5% FAILURE RATE

PRODUCER'S LIABILITY | POWERED WITH ELECTRONIC WARRANTY 10 YEARS ACCORDING TO TCI CATALOGUE CONDITIONS

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni

STC HPFU

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT | constant VOLTAGE

UL-CLASS2 CSA-LVLE | 05 | 100 | EL | SELV 60V

RIPPLE FREE | Pst LM ≤1 SVM ≤0,4

1÷2kV DIFF. 2kV COMM. | SEC. SWITCH | SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
STC 8W 350mA HPFU	141050	6(2)/8	2...25,2	350 mA cost.	26	-25...+50	80	0,87 C	> 78 %
STC 9W 350mA HPFU	141052	6(2)/9	2...27	350 mA cost.	30	-25...+45/50(2)	75/80(2)	0,88 C	> 80 %
STC 6W 500mA HPFU	141054	6	2...12,6	500 mA cost.	14	-25...+45	75	0,8 (0,9(2)) C	> 72 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
Light output level in DC operation: Factory default 100% EOFi=1
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1

Rated Voltage
Tensione Nominale
100 ÷ 127 V (2)
100 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
90 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
176 ÷ 275 V

Power - Potenza
1 ÷ 9 W

iTHD
≥ 40% (1)

Output current ripple
≤ 3% (1)

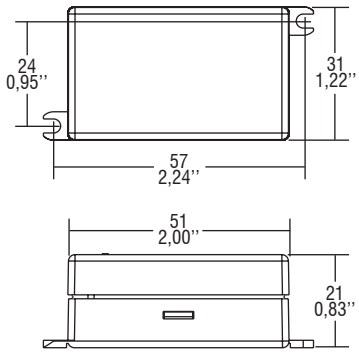
Standards compliance
CSA-C22.2 n° 250.13
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
UL 8750

Max. pcs for CB B16A
(see page info17)
50 pcs

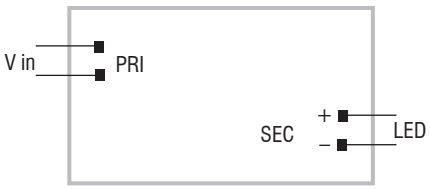
In rush current
20A 170μsec

BUILT-IN | SCREW FIXING

Weight - Peso: gr. 35 / 1,23 oz.
Pcs - Pezzi 50



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)



Features
- Driver for built-in use.
- Input and output terminal blocks on opposite sides.
- Single terminal at the primary and secondary circuit (wire cross-section up to 2,5 mm² / AWG13).
- It can be used for lighting equipment in protection class I and II.
- Current regulation +5 % including temperature variations.
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.

Caratteristiche
- Alimentatore da incorporare.
- Morsetti di entrata e uscita contrapposti.
- Singolo morsetto su primario e secondario (sezione cavo fino a 2,5 mm² / AWG13).
- Utilizzabile per apparecchi di illuminazione in classe di protezione I e II.
- Corrente regolata +5 % incluse variazioni di temperatura.
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.

7 YEARS WARRANTY 3% FAILURE RATE | 10 YEARS WARRANTY 5% FAILURE RATE

PRODUCER'S LIABILITY | POWERED WITH ELECTRONICS WARRANTY 10 YEARS ACCORDING TO TCI CATALOGUE CONDITIONS

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni

STM HPFU

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT | constant VOLTAGE

RIPPLE FREE | Pst LM ≤ 1 SVM ≤ 0,4

1÷2kV DIFF. 2kV COMM. | SEC. SWITCH | SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC(1)	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
STM 9W 250mA HPFU	127719	6(2)/9	2...36	250 mA cost.	39	-20...+55	80	0,88 C	> 79 %
STM 8W 350mA HPFU	127715	6(2)/8	2...23	350 mA cost.	24	-20...+55(2)/60	80	0,87 C	> 78 %
STM 10W 350mA HPFU	127716	6(2)/10	2...30	350 mA cost.	32	-20...+55	80	0,88 C	> 79 %
STM 6W 500mA HPFU	127717	6	2...12,6	500 mA cost.	13	-25...+50(2)/55	75	0,8 (0,9(2)) C	> 72 %
STM 8W 700mA HPFU (3)	127718	6(2)/8	2...12	700 mA cost.	13	-20...+45	80	0,87 C	> 77 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
(3) Without UL - Senza UL

Light output level in DC operation: Factory default 100% EOFi=1
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1

Rated Voltage
Tensione Nominale
100 ÷ 127 V (2)
100 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
90 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
176 ÷ 275 V

Power - Potenza
1 ÷ 10 W

iTHD
≥ 40% (1)

Output current ripple
≤ 3% (1)

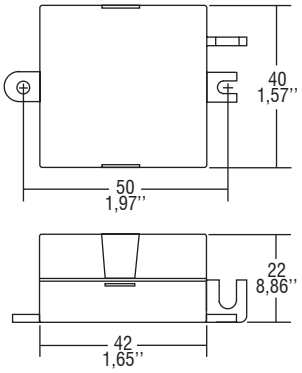
Standards compliance
CSA-C22.2 n° 250.13
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
UL 8750

Max. pcs for CB B16A
(see page info17)
50 pcs

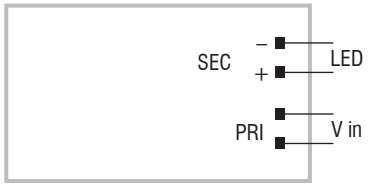
In rush current
20A 170μsec

BUILT-IN | SCREW FIXING

Weight - Peso: gr. 35 / 1,23 oz.
Pcs - Pezzi 90



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)



Features
- Driver for built-in use.
- Input and output terminal blocks on the same side.
- Single terminal at the primary and secondary circuit (wire cross-section up to 2,5 mm² / AWG13).
- Ultra compact size.
- It can be used for lighting equipment in protection class I and II.
- Driver can be secured with slot for screws.
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.
- Current regulation -8 %...+5 % including temperature variations.

Caratteristiche
- Alimentatore da incorporare.
- Morsetti di entrata e uscita sullo stesso lato.
- Singolo morsetto su primario e secondario (sezione cavo fino a 2,5 mm² / AWG13).
- Dimensioni molto ridotte e compatte.
- Utilizzabile per apparecchi di illuminazione in classe di protezione I e II.
- Fissaggio dell'alimentatore tramite asole per viti.
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.
- Corrente regolata -8 %...+ 5 % incluse variazioni di temperatura.

7 YEARS WARRANTY 3% FAILURE RATE | 10 YEARS WARRANTY 5% FAILURE RATE

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni

DCC HPFU

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT | constant VOLTAGE

IS 15885 (Part 2 / Sec 13) (5) R - 41049751 | UL-CLASS2 (2) CSA-LVLE | 100 | EL | SELV 60V

RIPPLE FREE | Pst LM ≤ 1 SVM ≤ 0,4

1÷2kV DIFF. 2kV COMM. | SEC. SWITCH | SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC(1)	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
DCC 10W 250mA HPFU	127699	10 (10(2))	2...43	250 mA cost.	45	-25...+50	75/80(2)	0,85 C	> 85 %
DCC 15W 350mA HPFU	127713	14,5 (10(2))	2...41,5	350 mA cost.	45	-25...+45	75/80(2)	0,9 (0,85(2)) C	> 85 %
DCC 12W 500mA HPFU (4)	127711	12 (10(2))	2...24	500 mA cost.	25	-25...+50	80	0,85 C	> 83 %
DCC 12W 700mA HPFU (4)	127712	12 (10(2))	2...16	700 mA cost.	19	-25...+45	75	0,85 C	> 80 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
(4) ENEC only for 220-240 V - ENEC solo per 220-240 V
(5) 127699BIS - 127711BIS - 127712BIS - 127713BIS:
order codes for BIS marked products - codici di ordine per i prodotti marchiati BIS

Light output level in DC operation: Factory default 100% EOFi=1
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1

Rated Voltage
Tensione Nominale
100 ÷ 127 V (2)
220 ÷ 240 V

Frequency - Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
90 ÷ 264 V

DC Voltage
Tensione DC
(see page info15)
176 ÷ 275 V

Power - Potenza
0 ÷ 15 W

iTHD
≤ 45% (1)

Output current ripple
≤ 3% (1)

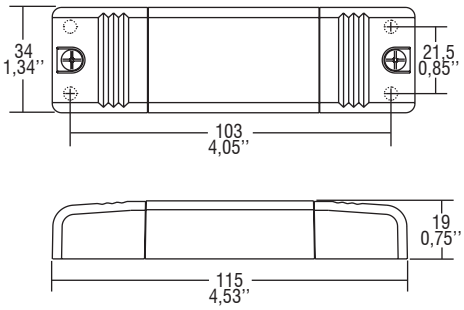
Standards compliance
CSA C22.2 no. 250 (2)
UL 8750
EN 55015
EN 60598-1
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
EN 62384

Max. pcs for CB B16A
(see page info17)
27 pcs

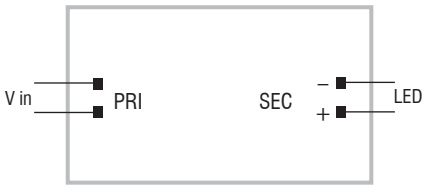
In rush current
27A 250μsec

IP 20 | SCREW FIXING | Ø40 1,57"

Weight - Peso:
gr. 60 / 2,07 oz.
Pcs - Pezzi 50



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)



Features
- IP20 independent driver, for indoor use.
- Class II protection against electric shock for direct or indirect contact.
- Supplied with terminal cover and cable retainer.
- Input and output terminal blocks on opposite sides (wire cross-section up to 2,5 mm² / AWG13).
- Single terminal block on primary and secondary circuit.
- Clamping screws on primary and secondary circuits for cables with diameter: min. 3 mm - max. 8 mm.
- Driver can be secured with slot for screws.
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.
- Thermal protection = C.5.a.

Caratteristiche
- Alimentatore indipendente IP20, per uso interno.
- Protetto in classe II contro le scosse elettriche per contatti diretti e indiretti.
- Fornito di coprimorsetto e serracavo.
- Morsetti di entrata e uscita contrapposti (sezione cavo fino a 2,5 mm² / AWG13).
- Singola morsettiera su primario e secondario.
- Serracavo su primario e secondario per cavi di diametro: min. 3 mm - max. 8 mm.
- Fissaggio dell'alimentatore tramite asole per viti.
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.
- Protezione termica = C.5.a.

7 YEARS WARRANTY 3% FAILURE RATE | 10 YEARS WARRANTY 5% FAILURE RATE

PRODUCER'S LIABILITY TCI | POWERED WITH ELECTRONICS WARRANTY 10 YEARS 10 ACCORDING TO TCI CATALOGUE CONDITIONS

DCCH HPF

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT

RIPPLE FREE

Pst LM ≤ 1
SVM ≤ 0,4

PENDING

EL SELV 60V

1÷2kV DIFF.
2kV COMM.

SEC. SWITCH

SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
DCCH 12W 250/350mA HPF	141092	10	2...40	250 mA cost.	48	-25...+45	80	0,8 C	> 80 %
		12	2...34	350 mA cost.				0,85 C	
DCCH 7W 140/180mA HPF	141090	5,6	2...40	140 mA cost.	48	-25...+50	75	0,75 C	> 75 %
		7,2	2...40	180 mA cost.				0,8 C	

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
Light output level in DC operation: Factory default 100% EOFi=1
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1

Rated Voltage
Tensione Nominale
220 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
198 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
176 ÷ 276 V

Power - Potenza
0 ÷ 12 W

iTHD
≥ 45% (1)

Output current ripple
≤ 3% (1)

Standards compliance
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547

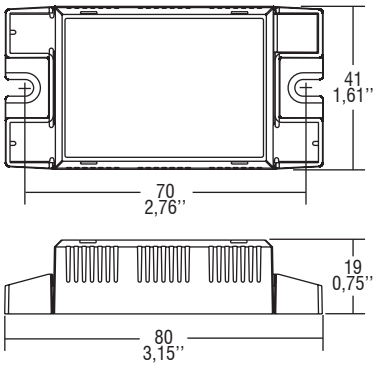
Max. pcs for CB B16A
(see page info17)
27 pcs

In rush current
27A 250μsec

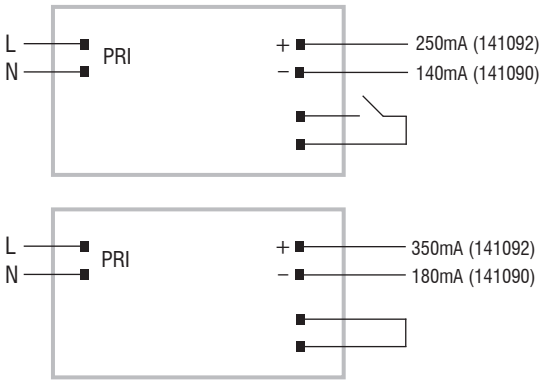
BUILT-IN

SCREW FIXING

Weight - Peso gr. 48 /1,7 oz.
Pcs - Pezzi 50



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)



Features
- Possibility to choose the output current through short circuit on the appropriate terminal block.
- Driver for built-in use.
- It can be used for lighting equipment in protection class I and II.
- Input and output terminal blocks on opposite sides.
- Single terminal block at the primary and secondary circuit (wire cross-section up to 0,5-1,5 mm² / AWG20 - AWG15).
- Driver can be secured with slot for screws.
- Ultra compact size.
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.
- Current regulation -6% +5% including temperature variations.
- Thermal protection = C.5.a.

Caratteristiche
- Possibilità di scegliere la corrente d'uscita tramite cortocircuito sull'apposito morsetto.
- Alimentatore da incorporare.
- Utilizzabile per apparecchi di illuminazione in classe di protezione I e II.
- Morsetti di entrata e uscita contrapposti.
- Singolo morsetto su primario e secondario (sezione morsetto 0,5-1,5 mm² / AWG20 - AWG15).
- Fissaggio dell'alimentatore tramite asole per viti.
- Dimensioni molto ridotte e compatte.
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.
- Corrente regolata -6% + 5% incluse variazioni di temperatura.
- Protezione termica = C.5.a.

7 YEARS WARRANTY 3% FAILURE RATE

10 YEARS WARRANTY 5% FAILURE RATE

PRODUCER'S LIABILITY TCI

COVERED WITH ELECTRONIC WARRANTY 10 YEARS 10 ACCORDING TO TCI CATALOGUE CONDITIONS

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni

SLIM HPFU

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT | constant VOLTAGE

RIPPLE FREE | Pst LM ≤ 1 SVM ≤ 0,4

1÷2kV DIFF. 2kV COMM. | SEC. SWITCH | SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC(1)	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
Constant current output - Uscita in corrente costante									
SLIM 15W 350mA HPFU (3)(7)	141110	15 (8(2))	2...43	350 mA cost.	44	-25...+45	80	0,88 (0,9(2)) C	> 90 %
SLIM 14W 500mA HPFU (4)	141112	14 (6(2))	2...27	500 mA cost.	29	-25...+45	80	0,88 (0,89(2)) C	> 82 %
SLIM 11W 700mA HPFU (5)	141114	11 (6(2))	2...17	700 mA cost.	18	-25...+45	80	0,87 (0,89(2)) C	> 80 %
Constant voltage output - Uscita in tensione costante									
SLIM 13W 12V HPFU (6)	141120	13 (6(2))	12 cost.	1,08 A max.	13	-25...+50	80	0,88 (0,9(2)) C	> 80 %
SLIM 13W 24V HPFU (6)(7)	141122	13 (6(2))	24 cost.	550 mA max.	25	-25...+50	80	0,88 (0,9(2)) C	> 90 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
Light output level in DC operation: Factory default 100% EOFi=1 / EOFu=1 only for 141120 - 141122
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1 / EOFu=1 solo per 141120 - 141122

Rated Voltage
Tensione Nominale
100 ÷ 127 V (2)
220 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
90 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
170 ÷ 280 V

Power - Potenza
0 ÷ 15 W

Input Power
Potenza in ingresso
18 (3) (10 (2)) W
17 (4) (8 (2)) W
14 (5) (8 (2)) W
16 (6) (7 (2)) W

iTHD
≥ 40% (1)

Output current ripple
≤ 3% (1)

Standards compliance
CSA C22.2 no. 250 (7)
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
UL 8750

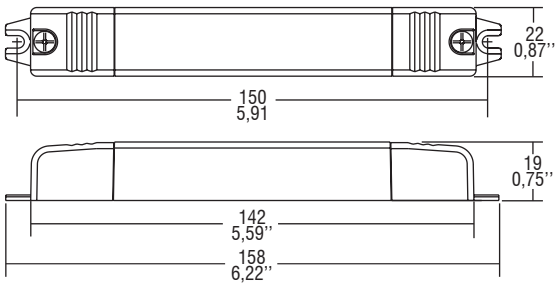
Max. pcs for CB B16A
(see page info17)
27 pcs

In rush current
27A 250μsec

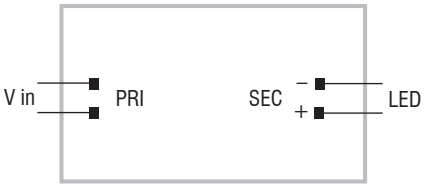
IP 20 | SCREW FIXING | Ø32 1,26''

Compatible with ZHAGA (BM5)

Weight - Peso:
gr. 55 / 2 oz.
Pcs - Pezzi 50



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)



Features
- IP20 independent driver, for indoor use.
- Class II protection against electric shock for direct or indirect contact.
- Supplied with terminal cover and cable retainer.
- Input and output terminal blocks on opposite sides (wire cross-section up to 2,5 mm²/ AWG13).
- Single terminal block on primary and secondary circuit.
- Clamping screws on primary and secondary circuits for cables with diameter: min. 3 mm - max. 8 mm.
- Driver can be secured with slot for screws.
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.

Caratteristiche
- Alimentatore indipendente IP20, per uso interno.
- Protetto in classe II contro le scosse elettriche per contatti diretti e indiretti.
- Fornito di coprimorsetto e serracavo.
- Morsetti di entrata e uscita contrapposti (sezione cavo fino a 2,5 mm²/ AWG13).
- Singola morsettiera su primario e secondario.
- Serracavo su primario e secondario per cavi di diametro: min. 3 mm - max. 8 mm.
- Fissaggio dell'alimentatore tramite asole per viti.
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.

7 YEARS WARRANTY 3% FAILURE RATE | 10 YEARS WARRANTY 5% FAILURE RATE

PRODUCER'S LIABILITY | POWERED WITH ELECTRONICS WARRANTY 10 YEARS ACCORDING TO TCI CATALOGUE CONDITIONS

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni

AR HPFU

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT | constant VOLTAGE

RIPPLE FREE | Pst LM ≤ 1 SVM ≤ 0,4

1÷2kV DIFF. 2kV COMM. | SEC. SWITCH | SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC(1)	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
AR 14W 350mA HPFU	141065	14 (10(3))	2...40	350 mA cost.	45	-25...+45	80	0,86 C	> 82 %
AR 12W 550mA HPFU	141067	12 (10(2)(3))	2...22	550 mA cost.	26	-25...+45	80	0,85 C(4)	> 81 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
(2) Pout 8 W
(4) λ: 0,8 C @ 100,110 ÷ 127 Vac @ P<10W

Light output level in DC operation: Factory default 100% EOFi=1
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1

Rated Voltage
Tensione Nominale
100 (2)
110 ÷ 127 V (3)
220 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
90 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
176 ÷ 276 V

Power - Potenza
0 ÷ 14 W

iTHD
≥ 45% (1)

Output current ripple
≤ 3% (1)

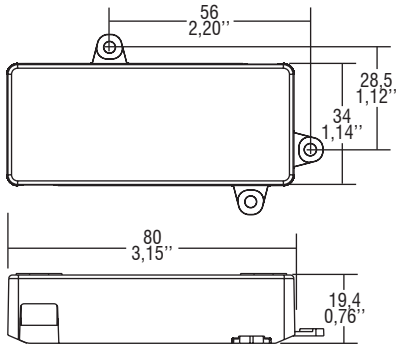
Standards compliance
CSA C22.2 no. 223
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
EN 62384
UL 1310

Max. pcs for CB B16A
(see page info17)
27 pcs

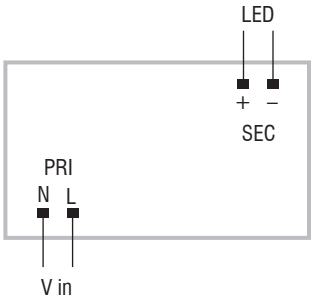
In rush current
27A 250μsec

BUILT-IN | SCREW FIXING

Weight - Peso gr. 45 / 1,6 oz.
Pcs - Pezzi 50



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)



Features
- Driver for built-in use.
- It can be used for lighting equipment in protection class I and II.
- Input and output terminal blocks on opposite sides (wire cross-section up to 2,5 mm² / AWG13).
- Single terminal block on primary and secondary circuit.
- Driver can be secured with slot for screws.
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.
- Thermal protection = C.5.a.

Caratteristiche
- Alimentatore da incorporare.
- Utilizzabile per apparecchi di illuminazione in classe di protezione I e II.
- Morsetti di entrata e uscita contrapposti (sezione cavo fino a 2,5 mm²/ AWG13).
- Singola morsettiera su primario e secondario.
- Fissaggio dell'alimentatore tramite asole per viti.
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.
- Protezione termica = C.5.a.

7 YEARS WARRANTY 3% FAILURE RATE
10 YEARS WARRANTY 5% FAILURE RATE

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni

BMU HPFU

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT

RIPPLE FREE

Pst LM ≤ 1
SVM ≤ 0,4

IS 15885 (Part 2 / Sec 13) (6) R - 41049751

UL-CLASS2 CSA-LVLE

PENDING

EL SELV 60V

1÷2kV DIFF. 2kV COMM.

SEC. SWITCH

SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC(1)	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
BMU 12W 350mA HPFU	141070	12 (10(2)(3))	2...34	350 mA cost.	39	-25...+45(2)/50	80	0,85 C(4)	> 80 %
BMU 12W 500mA HPFU	141072	12 (10(2)(3))	2...24	500 mA cost.	28	-25...+45(2)/50	80	0,85 C(4)	> 81 %
BMU 12W 700mA HPFU	141074	12 (10(2)(3))	2...17	700 mA cost.	22	-25...+45(2)/50	80	0,85 C(5)	> 80 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
(3) Pout 8 W
(4) λ: 0,85 C @ 220 ÷ 240 Vac @ Pmax
λ: 0,8 C @ 100, 110 ÷ 127 Vac @ P<10W
(5) λ: 0,85 C @ 220 ÷ 240, 110 ÷ 127 Vac @ P10÷12
λ: 0,75 C @ 100 Vac @ P<8W
(6) 141070BIS - 141072BIS - 141074BIS: order codes for BIS marked products - codici di ordine per i prodotti marchiati BIS

Light output level in DC operation: Factory default 100% EOFi=1
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1

Rated Voltage
Tensione Nominale
100 (3)
110 ÷ 127 V (2)
220 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
90 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
176 ÷ 276 V

Power - Potenza
0 ÷ 12 W

iTHD
≥ 45% (1)

Output current ripple
≤ 3% (1)

Standards compliance
CSA C22.2 no. 223
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
UL 1310
UL 8750

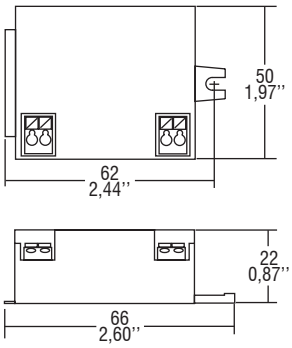
Max. pcs for CB B16A
(see page info17)
27 pcs

In rush current
27A 250μsec

BUILT-IN

SCREW FIXING

Weight - Peso gr. 45 / 1,6 oz.
Pcs - Pezzi 70



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)

Features
- Driver for built-in use.
- Input and output terminal blocks on the same side.
- It can be used for lighting equipment in protection class I and II.
- Single terminal block at the primary and secondary circuit (wire cross-section up to 1,5 mm² / AWG15).
- Driver can be secured with slot for screws.
- Ultra compact size.
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.
- Current regulation -6 % +5 % including temperature variations.
- Thermal protection = C.5.a.

Caratteristiche
- Alimentatore da incorporare.
- Morsetti di entrata e uscita sullo stesso lato.
- Utilizzabile per apparecchi di illuminazione in classe di protezione I e II.
- Singolo morsetto su primario e secondario (sezione cavo fino a 1,5 mm² / AWG15).
- Fissaggio dell'alimentatore tramite asole per viti.
- Dimensioni molto ridotte e compatte.
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.
- Corrente regolata -6 % +5 % incluse variazioni di temperatura.
- Protezione termica = C.5.a.

7 YEARS WARRANTY 3% FAILURE RATE

10 YEARS WARRANTY 5% FAILURE RATE

PRODUCER'S LIABILITY TCI

POWERED WITH ELECTRONICS WARRANTY 10 YEARS ACCORDING TO TCI CATALOGUE CONDITIONS

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni

1

Single current drivers - Not dimmable
Alimentatori corrente singola - Non regolabili

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT | constant VOLTAGE

RIPPLE FREE | Pst LM ≤ 1 SVM ≤ 0,4

EAC PENDING | ENEC 05 | UL-CLASS2 cULus CSA-LVLE | 100 | EL | SELV 60V

2kV DIFF. 4kV COMM. | COOKER HOOD | SEC. SWITCH | SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC(1)	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
Constant current output - Uscita in corrente costante									
DC 10W 350mA KU3	127303A	10	2...30	350 mA cost.	32	-20...+40(2)/55	85	0,86 C	> 77 %
DC 10W 700mA KU3	127302A	10	2...15	700 mA cost.	17	-20...+40(2)/55	85	0,88 C	> 77 %
Constant voltage output - Uscita in tensione costante									
DC 10W 12V KU3	127304A	10	12 cost.	830 mA max.	12	-20...+40(2)/55	85	0,86 C	> 77 %
DC 10W 24V KU3	127305A	10	24 cost.	420 mA max.	24	-20...+40(2)/55	85	0,86 C	> 77 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
Light output level in DC operation: Factory default 100% EOFi=1
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1

Rated Voltage
Tensione Nominale
110 ÷ 120 V (2)
110 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
99 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
170 ÷ 280 V

Power - Potenza
0 ÷ 10 W

iTHD
≥ 40% (1)

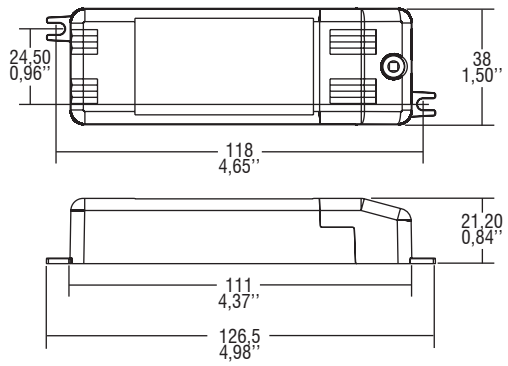
Output current ripple
≤ 3% (1)

Standards compliance
CSA C22.2 no. 250.13
EN 55015
EN 60335-1
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
UL 8750

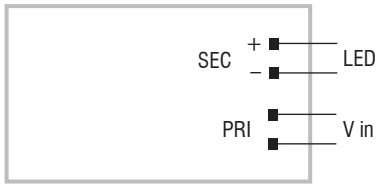
Max. pcs for CB B16A
(see page info17)
27 pcs

In rush current
27A 250μsec

IP 20 | Ø40 1,57" | Weight - Peso gr. 68 / 2,4 oz.
Pcs - Pezzi 30



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)



Features
- **Double output impedance for use in household electrical appliances.**
- IP20 independent driver, for indoor use.
- Class II protection against electric shock for direct or indirect contact.
- Supplied with terminal cover and cable retainer.
- Input and output terminal blocks on the same side (wire cross-section up to 2,5 mm² / AWG13).
- Single terminal block on primary and secondary circuits.
- Clamping screws on primary and secondary circuits for cables with diameter: min. 3 mm - max. 6 mm.
- Current regulation -5 % +5 % including temperature variations.
- Protections:
  - against overheating;
  - against short circuits;
  - against mains voltage spikes;
  - against overloads.

Caratteristiche
- **Doppia impedenza d'uscita per l'utilizzo in apparecchi elettrodomestici.**
- Alimentatore indipendente IP20, per uso interno.
- Protetto in classe II contro le scosse elettriche per contatti diretti e indiretti.
- Fornito di coprimorsetto e serracavo.
- Morsetti di entrata e uscita sullo stesso lato (sezione cavo fino a 2,5 mm² / AWG13).
- Singola morsettiera su primario e secondario.
- Serracavo su primario e secondario per cavi di diametro: min. 3 mm - max. 6 mm.
- Corrente regolata -5 % +5 % incluse variazioni di temperatura.
- Protezioni:
  - termica;
  - contro il cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.

7 YEARS WARRANTY 3% FAILURE RATE | 10 YEARS WARRANTY 5% FAILURE RATE

PRODUCER'S LIABILITY TCI | COVERED WITH ELECTRONIC WARRANTY 10 YEARS 10 ACCORDING TO TCI CATALOGUE CONDITIONS

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni

RPWM HPFU

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT | constant VOLTAGE

UL-CLASS2 CSA-LVLE PENDING | KEMA KEUR | 110 | EL | SELV 60V

RIPPLE FREE | Pst LM ≤ 1 SVM ≤ 0,4

1÷2kV DIFF. 2kV COMM. | COOKER HOOD | SEC. SWITCH | SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC(1)	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
Constant current output - Uscita in corrente costante									
DC 15W 350mA R HPFU	122254H	15 (15(2))	2...42	350 mA cost.	55	-25...+55	75	0,95	> 85 %
DC 20W 700mA R HPFU	122251H	20 (15(2))	2...28	700 mA cost.	55	-25...+50/55(2)	80	0,95	> 85 %
Constant voltage output - Uscita in tensione costante									
DC 8W 12V R HPFU	122253H	8 (8(2))	12 cost.	660 mA max.	13	-25...+50	80	0,95	> 85 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
Light output level in DC operation: Factory default 100% EOFi=1 / EOFu=1 only for 122253H
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1 / EOFu=1 solo per 122253H

Rated Voltage
Tesione Nominale
110 ÷ 127 V (2)
220 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
100 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
170 ÷ 280 V

Power - Potenza
0 ÷ 20 W

iTHD
≥ 45% (1)

Output current ripple
≤ 3% (1)

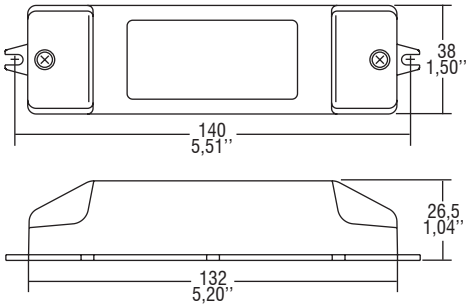
Standards compliance
EN 55015
EN 60335-1
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
EN 62384

Max. pcs for CB B16A
(see page info17)
50 pcs

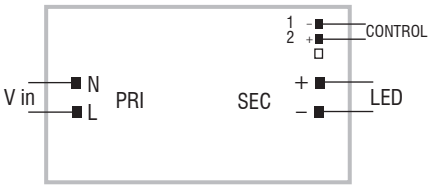
In rush current
5A 50μsec

IP 20 | SCREW FIXING | Ø48 1,89"

Weight - Peso:
gr. 110 / 3,9 oz.
Pcs - Pezzi 60



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)



Features
- **Double output impedance for use in household electrical appliances.**
- Dimmable driver with PWM input 250-1000Hz.
- IP20 independent driver, for indoor use.
- Class II protection against electric shock for direct or indirect contact.
- Current regulation ±5% including temperature variations.
- Supplied with terminal cover and cable retainer.
- Input and output terminal blocks on opposite sides (wire cross-section up to 2,5 mm² / AWG13).
- Single terminal block on primary and secondary circuits.
- Clamping screws on primary and secondary circuits for cables with diameter: min. 3 mm - max. 8 mm.
- Driver can be secured with slot for screws.
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.

Caratteristiche
- **Doppia impedenza d'uscita per l'utilizzo in apparecchi elettrodomestici.**
- Alimentatore regolabile con ingresso per segnali PWM 250-1000Hz.
- Alimentatore indipendente IP20, per uso interno.
- Protetto in classe II contro le scosse elettriche per contatti diretti e indiretti.
- Corrente regolata ±5% incluse variazioni di temperatura.
- Fornito di coprimorsetto e serracavo.
- Morsetti di entrata e uscita contrapposti (sezione cavo fino a 2,5 mm² / AWG13).
- Singola morsettiera su primario e secondario.
- Serracavo su primario e secondario per cavi di diametro: min. 3 mm - max. 8 mm.
- Fissaggio dell'alimentatore tramite asole per viti.
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.

7 YEARS WARRANTY 3% FAILURE RATE | 10 YEARS WARRANTY 5% FAILURE RATE

PRODUCER'S LIABILITY TCI | POWERED WITH ELECTRONICS WARRANTY 10 YEARS 10 ACCORDING TO TCI CATALOGUE CONDITIONS

W HPF

Direct current electronic drivers
Alimentatori elettronici in corrente continua

Made in Italy

constant CURRENT

Pst LM ≤ 1
SVM ≤ 0,4

1÷2kV DIFF. 2kV COMM. | ACTIVE PFC | COOKER HOOD | SEC. SWITCH | SAFETY PROTECTIONS

Article Articolo	Code Codice	P out W	V out DC	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency(1)
DC 18W 350mA W HPF (3)	127132	18	25...51	350 mA cost.	59	-20...+45	70	0,98	> 89 %
DC 16W 400mA W HPF (3)(7)	127133	16	22...40	400 mA cost.	59	-20...+45	70	0,97	> 88 %
DC 20W 500mA W HPF (3)	127134	20	22...40	500 mA cost.	59	-20...+45	70	0,98	> 89 %
DC 25W 600mA W HPF (4)(5)	127131	25	22...41,5	600 mA cost.	59	-20...+45	75	0,98	> 88 %
DC 25W 700mA W HPF (4)(5)	127130	25	15...36	700 mA cost.	48	-20...+45	75	0,98	> 88 %
DC 23W 900mA W HPF (2)(4)(6)	127138	23	12...25	900 mA cost.	40	-20...+45	70	0,98	> 87 %
DC 22W 1050mA W HPF (4)(6)	127136	22	10...21	1,05 A cost.	35	-20...+45	70	0,98	> 86 %

(1) Referred to V_{in} = 230 V, 100% load - Riferito a V_{in} = 230 V, carico 100%
(2) Suitable for cree module LMH020
(5) If mounted on flammable surfaces tc ≤ 60 °C - Se montato su superfici infiammabili tc ≤ 60 °C
(6) If mounted on flammable surfaces tc ≤ 65 °C - Se montato su superfici infiammabili tc ≤ 65 °C
(7) Without EL and DC operation - Senza EL e funzionamento DC

Light output level in DC operation: Factory default 100% EOFi=1
Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EOFi=1

Rated Voltage
Tensione Nominale
220 ÷ 240 V

Frequency
Frequenza
50-60 Hz

DC Operation range
Tensione di utilizzo DC
(see page info15)
176 ÷ 264 V

Power - Potenza
9 ÷ 25 W

iTHD
≤ 10% (1)

Output current ripple
± 20% (1)

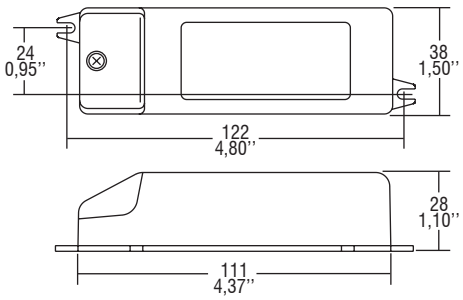
Standards compliance
EN 55015
EN 60335-1
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
EN 62384

Max. pcs for CB B16A
(see page info17)
50 pcs

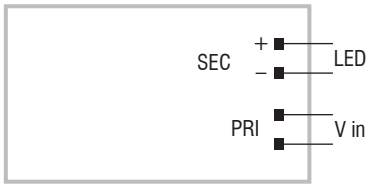
In rush current
2A 50μsec

IP 20 | SCREW FIXING | Ø48 1,89''

Weight - Peso:
gr. 93 / 3,3 oz.
Pcs - Pezzi 50



Wiring diagram - Schema di collegamento
(Max. LED distance on page info8 - Massima distanza LED a pagina info8)



Features
- IP20 independent driver, for indoor use.
- Class II protection against electric shock for direct or indirect contact.
- Current regulation ±7% including temperature variations.
- Supplied with terminal cover and cable retainer.
- Input and output terminal blocks on the same side (wire cross-section up to 2,5 mm²/ AWG13).
- Single terminal block on primary and secondary circuits.
- Clamping screws on primary and secondary circuits for cables with diameter: min. 3 mm - max. 6 mm.
- Driver can be secured with slot for screws.
- Protections:
  - against overheating and short circuits;
  - against mains voltage spikes;
  - against overloads.

Caratteristiche
- Alimentatore indipendente IP20, per uso interno.
- Protetto in classe II contro le scosse elettriche per contatti diretti e indiretti.
- Corrente regolata ±7% incluse variazioni di temperatura.
- Fornito di coprimorsetto e serracavo.
- Morsetti di entrata e uscita sullo stesso lato (sezione cavo fino a 2,5 mm²/ AWG13).
- Singola morsettiera su primario e secondario.
- Serracavo su primario e secondario per cavi di diametro: min. 3 mm - max. 6 mm.
- Fissaggio dell'alimentatore tramite asole per viti.
- Protezioni:
  - termica e cortocircuito;
  - contro le extra-tensioni di rete;
  - contro i sovraccarichi.

7 YEARS WARRANTY 3% FAILURE RATE
10 YEARS WARRANTY 5% FAILURE RATE