

SIRIO SQ 4PN - 22 - 40 - 75 - 110 - 165



Direct current dimmable electronic drivers
Alimentatori elettronici regolabili in corrente continua

Made in Europe



⁽¹⁾ Referred to $V_{in} = 230\text{ V}$, 100% load
Riferito a $V_{in} = 230\text{ V}$, carico 100%



4.1

Rated Voltage
Tensione Nominale
220 ÷ 240 V

Frequency
Frequenza
47-63 Hz

AC Operation range
Tensione di utilizzo AC
202 ÷ 254 V

DC Operation range
Tensione di utilizzo DC
DC 186 ÷ 250 V

Power - Potenza
3 ÷ 165 W

iTHD
 $\leq 10\%$ ⁽¹⁾

Stand by power
 $\leq 0,5\text{ W}$

Output current ripple
 $\leq 4\%$ ⁽¹⁾

Standards compliance

EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
EN 62386-101
EN 62386-102
EN 62386-207
EN 62386-251 ⁽³⁾
EN 62386-252 ⁽³⁾
EN 62386-253 ⁽³⁾

Max. pcs for CB B16A

22W: 48 pcs
40W: 30 pcs
75W: 10 pcs
110W: 10 pcs
165W: 9 pcs

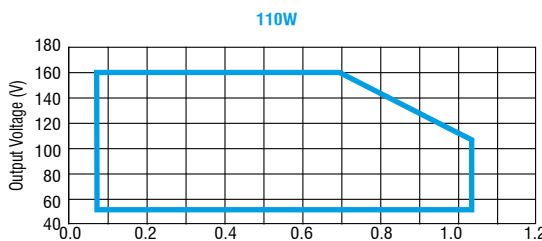
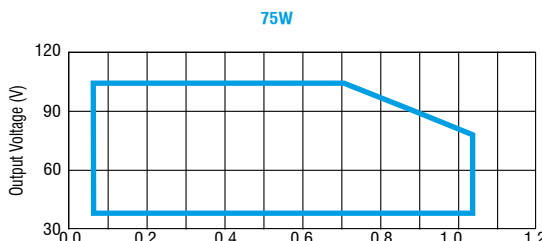
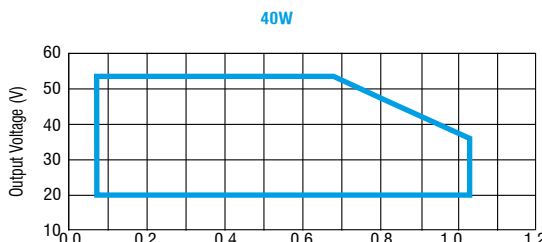
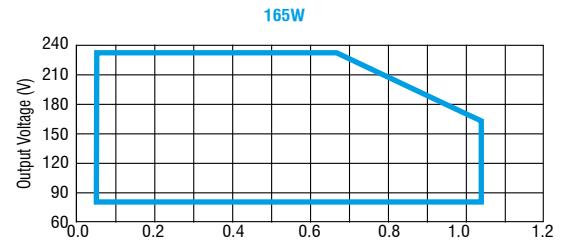
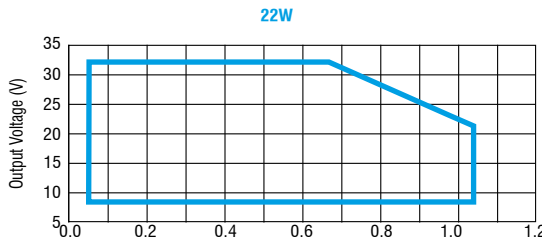
In rush current

22W: 12A 270 μ sec
40W: 18A 280 μ sec
75W: 43A 260 μ sec
110W: 47A 250 μ sec
165W: 77A 150 μ sec

Article Articolo	Code Codice	P out W	V out DC	I out DC	Default I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency ⁽¹⁾
SIRIO SQ 22W/300-1000 4PN ⁽²⁾	145058	3...22	8...32	70...1050 mA cost.	700	50	-40...+55	85	0,95	> 85 %
SIRIO SQ 40W/300-1000 4PN ⁽²⁾	145059	6...40	20...54	70...1050 mA cost.	700	60	-40...+55	85	0,95	> 88 %
SIRIO SQ 75W/300-1000 4PN ⁽³⁾	145060	10...75	35...108	70...1050 mA cost.	700	150	-40...+55	80	0,95	> 91,5 %
SIRIO SQ 110W/300-1000 4PN ⁽³⁾	145062	15...110	50...160	70...1050 mA cost.	700	230	-40...+55	85	0,95	> 92,5 %
SIRIO SQ 165W/300-1000 4PN ⁽³⁾	145063	24...165	80...235	70...1050 mA cost.	700	280	-40...+55	90	0,95	> 93 %

Light output level in DC operation: Programmable 10-60% (factory default = 15% EOfi=0.13)

Livello di emissione luminosa in funzionamento DC: Programmabile 10-60% (impostazione di fabbrica = 15% EOfi=0.13)



Features

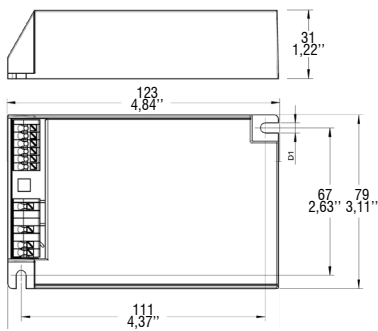
- **Ultra high input spikes protection up to 10kV.**
- Programmable multipower driver.
- Driver for built-in use.
- It can be used for lighting equipment in protection class I and II.
- Active Power Factor Corrector.
- Analogical input for thermal sensor connection.
- Current regulation $\pm 3\%$ ($\pm 5\%$ only for 145063) including temperature variations.
- Input and output terminal blocks on same side (wire cross-section 0,5...1,5 mm²).
- Protections:
 - against overheating and short circuits;
 - against mains voltage spikes;
 - against overloads.
- Thermal protection = C.5.e.

Caratteristiche

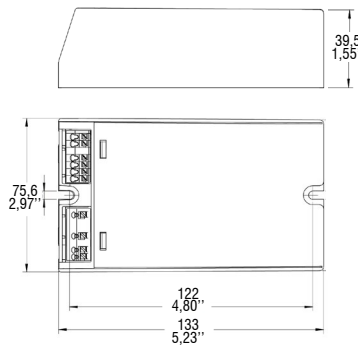
- **Elevata protezione contro spike di rete fino a 10kV.**
- Alimentatore multipotenza programmabile.
- Alimentatore da incorporare.
- Utilizzabile per apparecchi di illuminazione in classe di protezione I e II.
- PFC attivo.
- Entrata analogica per sensore termico.
- Corrente regolata $\pm 3\%$ ($\pm 5\%$ solo per 145063) incluse variazioni di temperatura.
- Morsetti di entrata e uscita sullo stesso lato (sezione cavo fino a 0,5...1,5 mm²).
- Protezioni:
 - termica e cortocircuito;
 - contro le extra-tensioni di rete;
 - contro i sovraccarichi.
- Protezione termica = C.5.e.



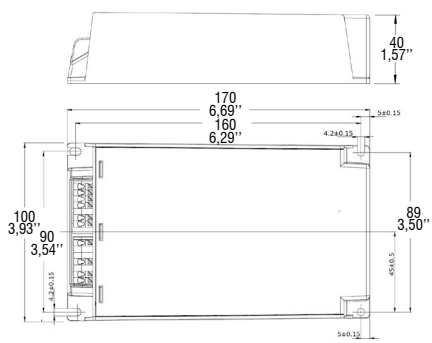
22W / 40W



75W / 110W



165W



Wiring diagrams - Schemi di collegamento (Max. LED distance: 2m - Massima distanza LED: 2m)

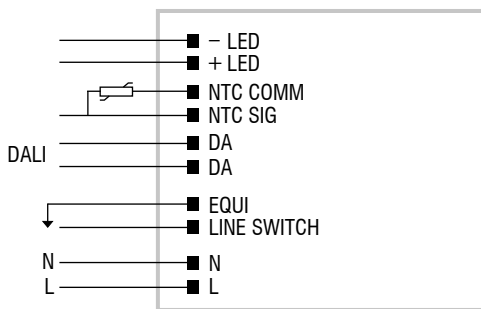


Diagram for 22 W / 40 W / 165 W

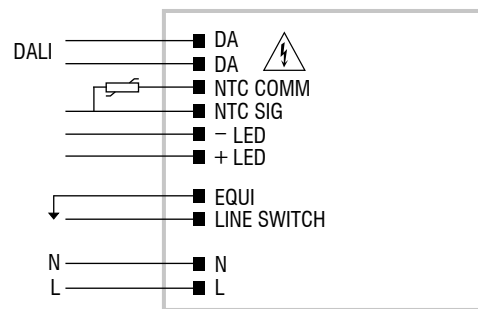
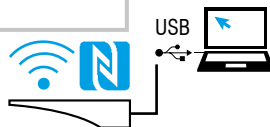
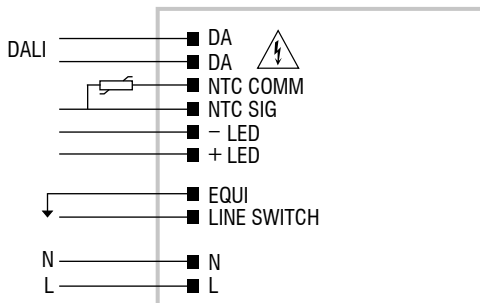


Diagram for 75 W / 110 W



WIRELESS PROGRAMMING diagram
Collegamento per PROGRAMMAZIONE WIRELESS

Article - Articolo	Code - Codice
NFC-A PROGRAMMING TOOL FEIG ISC.PRH101	127095A
NFC-B PROGRAMMING TOOL FEIG CPR30-USB	127101
DALI-MO PROGRAMMING TOOL	127105
LINK TO DOWNLOAD PROGRAMMING SOFTWARE LINK PER SCARICARE SOFTWARE DI PROGRAMMAZIONE	

Operation Mode

- 4PN devices allow the user to set different parameters.
- **WIRELESS PROGRAMMING** through **NFC** antenna.
- Compatible with standard DALI interfaces.
- The main available features are:
 - **DALI**: dimming through insulated port;
 - **MIDNIGHT**: automatic dimming according to programmed parameters;
 - **AMP DIM**: dimming according to mains voltage reduction;
 - **CLO**: Constant Light Output;
 - **CURRENT**: output current according to programmed parameters;
 - **NTC**: thermal protection and external NTC according to programmed parameters;
 - **DC EMERGENCY**.
- Light regulation 10 - 100 %.
- Dimming method is linear.

Modalità di funzionamento

- I dispositivi **4PN** permettono all'utente di impostare diversi parametri.
- La **PROGRAMMAZIONE WIRELESS** avviene attraverso l'antenna **NFC**.
- Compatibilità con interfacce DALI standard.
- Le principali caratteristiche disponibili sono:
 - **DALI**: regolazione attraverso la porta isolata;
 - **MIDNIGHT**: regolazione automatica secondo i parametri programmati;
 - **AMP DIM**: regolazione proporzionata alla riduzione della tensione di rete;
 - **CLO**: Constant Light Output;
 - **CORRENTE**: corrente di uscita secondo i parametri programmati;
 - **NTC**: protezione termica e NTC esterna secondo i parametri programmati;
 - **DC EMERGENCY**.
- Regolazione della luminosità 10 - 100 %.
- La dimmerazione è di tipo lineare.

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