

SVM 110/700-2100 DALI NFC

Direct current electronic drivers with NFC
Alimentatori elettronici in corrente continua con NFC

Made in Italy



3.2.2

Dimmable multipower drivers - Linear case - DALI & PUSH
Alimentatori multipotenza regolabili - Formato lineare - DALI & PUSH

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)
DC 176 ÷ 276 V

Power - Potenza
17 ÷ 110 W

iTHD
≤ 10% (1)

Stand by power
≤ 0,5 W

Output current ripple
≤ 5% (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
EN 62386-252
EN 62386-253

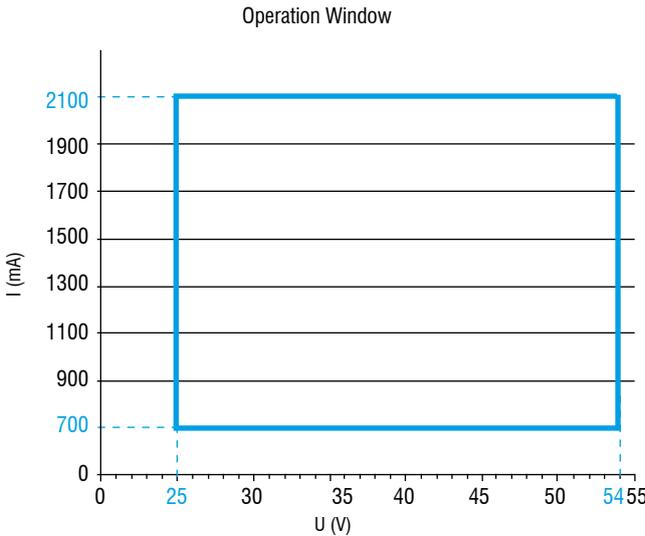
Max. pcs for CB B16A
(see page info17)
36 pcs

In rush current
40A 450µsec

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⁾
SVM 110 700-2100 DALI NFC	142069	17...110	25...54	700...2100 mA cost.	60	-25...+50	80	0,92 ⁽²⁾	> 92 %

(1) Referred to $V_m = 230$ V, 100% load - Riferito a $V_m = 230$ V, carico 100%
(2) Pout > 25 W

Light output level in DC operation: Programmable 1-100% (factory default =15% EoFi=0.13)
Livello di emissione luminosa in funzionamento DC: Programmabile 1-100% (impostazione di fabbrica =15% EoFi=0.13)



Features

- Multipower driver supplied with NFC for the selection of the output current.
- Driver for built-in use for class I lighting equipment; luminaire enclosure is necessary for protection against accidental contact with live parts.
- Active Power Factor Corrector.
- Current regulation ±5 % including temperature variations.
- Input and output terminal blocks on the opposite sides (wire cross-section up to 1,5 mm² / AWG15)
- Protections:
 - against overheating and short circuits;
 - against mains voltage spikes;
 - against overloads.
- Thermal protection = C.5.a.

Caratteristiche

- Alimentatore multipotenza fornito di NFC per la selezione della corrente in uscita.
- Alimentatore da incorporare in apparecchi di classe I; il contenitore dell'apparecchio è necessario per la protezione contro il contatto di parti attive.
- PFC attivo.
- Corrente regolata ±5 % incluse variazioni di temperatura.
- Morsetti di entrata e uscita contrapposti (sezione cavo fino a 1,5 mm² / AWG15)
- Protezioni:
 - termica e cortocircuito;
 - contro le extra-tensioni di rete;
 - contro i sovraccarichi.
- Protezione termica = C.5.a.

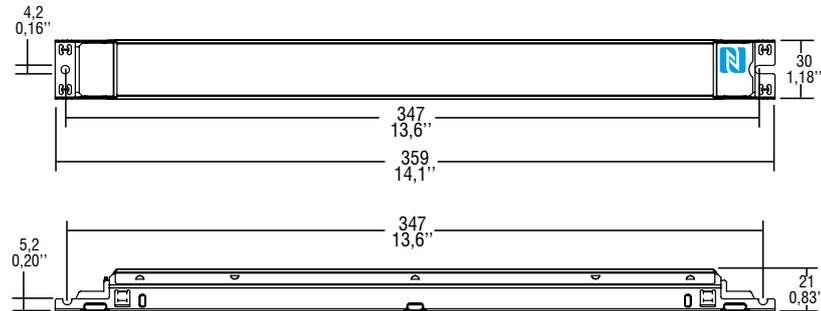
The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni



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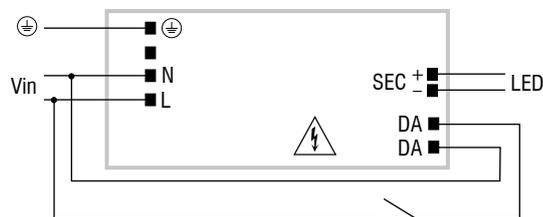
BUILT-IN SCREW FIXING  Pcs - Pezzi 30
 Compatible with ZHAGA (BL2/ZS5 H5D/ ZS5 H7D)



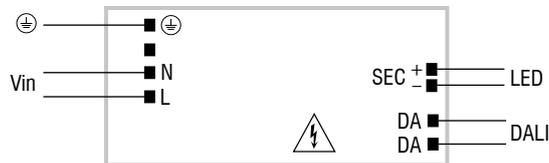
Wiring diagram - Schema di collegamento (Max. LED distance at page info8 - Massima distanza LED a pagina info8)



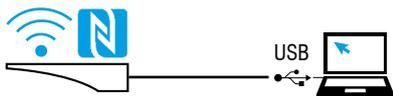
DALI diagram
 Collegamento DALI



PUSH SWITCH diagram
 Collegamento PUSH SWITCH



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
LINK TO DOWNLOAD PROGRAMMING SOFTWARE LINK PER SCARICARE SOFTWARE DI PROGRAMMAZIONE	

Operation Mode

- **WIRELESS PROGRAMMING** through **NFC** antenna.
 - Programmable features:
 - output current setting, step 1mA;
 - DC EMERGENCY;
 - Password (lock/unlock programming);
 - Features DALI dimming (0/1 - 100 %, minimum output current 21 mA):
 - memory function for sets or light groups;
 - recall of stored functions;
 - compatible with standard DALI interfaces.
 - **Dimming method is AMPLITUDE (1-100%).**
 - **Dimming level memory at mains restore.**
- For additional details for regulations see pages info12-14.

Modalità di funzionamento

- La **PROGRAMMAZIONE WIRELESS** avviene attraverso l'antenna **NFC**.
 - Caratteristiche programmabili:
 - settaggio corrente di uscita, step 1mA;
 - DC EMERGENCY;
 - Password (abilitare/disabilitare programmazione);
 - Caratteristiche della regolazione DALI (0/1 - 100 %, corrente minima di uscita 21 mA):
 - funzione di memoria per scenari o gruppi luminosi;
 - richiamo di funzioni memorizzate;
 - compatibilità con interfacce DALI standard.
 - **La dimmerazione è in ampiezza (1-100%).**
 - **Ripristino del livello di dimming al ritorno alimentazione.**
- Per ulteriori dettagli sulle regolazioni vedi pagine info12-14.

3.2.2

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Software: TCI_NFC_READER

<https://win.tcisaronno.com/public/CMS/Files/11436/Setup-NFC-DALI-1-0-0-180-1.zip>

Product data

Specification item	Value	Unit
Product name	SVM 110 700-2100 DALI NFC	
Order code	142069	
EAN (GTIN)	8010703475755	
Pieces per box	30	
Product weight	324	Gr
Made in	Italy	

Electrical input data

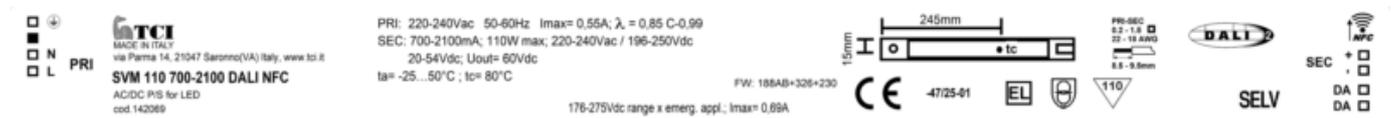
Specification item	Value	Unit	Condition
Rated input voltage	220...240	Vac	
Input voltage AC range	198...264	Vac	
Input voltage DC range	176...276	Vdc	Factory default 100% EOFi= 1
Rated input frequency	50...60	Hz	
Rated input current	0,556	A	Referred to Vin = 230 V, 100% load
Rated input power	121,52	W	Referred to Vin = 230V, 100% load
Power factor	0,92	λ	Pout > 25W
THD	< 10	%	Referred to Vin = 230 V, 100% load
Efficiency	92	%	Referred to Vin = 230 V, 100% load
Stand-by Power	< 0,5	W	
Isolation input to output	SELV		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant current		
Output voltage	25...54	Vdc	
Output voltage max.	60	V	Open load
Output current	700...2100	mA	
Output current min programmable	700	mA	
Output current min dimming	21	mA	
Output current tolerance	5	%	
Output power	17...110	W	
Output current ripple	< 3	%	
Output Pst LM	< 1		
Output SVM	< 0,4		

Label

Labels are for illustrative purposes only and may differ from the actual product



Electrical data controls input

Specification item	Value	Unit	Condition
Control method	DALI-2, CLO, PUSH SWITCH		
Dimming range	1...100	%	

Wiring and connections

Specification item	Value	Unit	Condition
Input wire cross section	0.2...1.5 / 24...15	mm ² / AWG	
Input wire strip length	8.5...9.5	mm	
Output wires cross section	0.2...1.5 / 24...15	mm ² / AWG	
Output wire strip length	8.5...9.5	mm	
Control wire cross section	0.2...1.5 / 24...15	mm ² / AWG	
Control wire strip length	8.5...9.5	mm	
Max. cable length		cm	Max. LED distance see page info 8

Wiring diagrams



DALI diagram
 Collegamento DALI

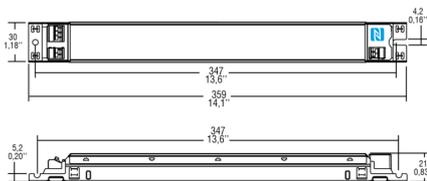


PUSH SWITCH diagram
 Collegamento PUSH SWITCH



WIRELESS PROGRAMMING diagram
 Collegamento per PROGRAMMAZIONE WIRELESS

Dimensions



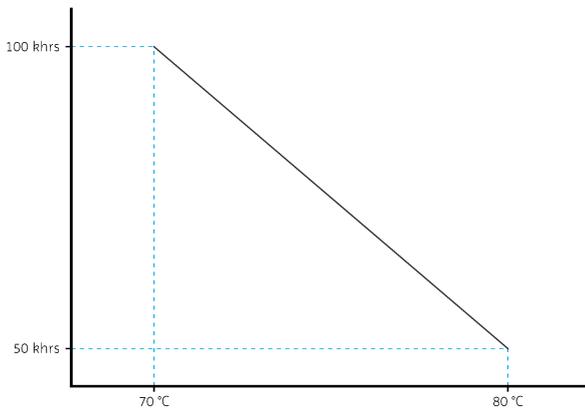
Insulation

PRI - SEC	double or reinforced
PRI - DALI	double or reinforced
DALI - SEC	supplementary

Operation temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25...+50	°C	
T _c	80	°C	Maximum temperature measured at T _c point
Maximum housing temperature	110	°C	In case of failure

Temperature/Life



Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-30...85	°C	
Relative humidity	5...85	%	Non condensing

Features

Specification item	Value	Condition
Open load	Yes	
Short circuit	Yes	
Over load and thermal protection	Yes	C.5.a
Hot plug	No	
Suitable for fixtures with protection class	class I	
Emergency Lighting (EL)	Yes	
DALI part 101	Yes	
DALI part 102	Yes	
DALI part 207	Yes	
DALI part 252	Yes	
DALI part 253	Yes	

Programmable features

Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	NFC	700mA	
Constant Light Output (CLO)	Yes	OFF	
Min Dimming Level	Yes	1%	
DC emergency level	Yes	OFF	Default 100% EOFi range = 1...100%
DALI part 251	Yes		

In rush current

Specification item	Value	Unit	Condition
In rush current	40/450	A / usec	
Drivers / MCB 16A type B	36	pcs	

Driver touch current / protective conductor current

Specification item	Value	Unit	Condition
Typical Protective Conductor Current	0,05	mA	

Surge immunity

Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	
Mains surge immunity (comm. mode)	2	kV	

Application info

Specification item	Value
Approval marks	CE ENEC RCM UL UKCA
Application	Linear dimmable
Mounting type	Built-in

Performance curves

