


**Software: TCI\_NFC\_READER**
<https://win.tcisonno.com/public/CMS/Files/11436/Setup-NFC-DALI-1-0-0-155.zip>

## Product data

| Specification item | Value                              | Unit |
|--------------------|------------------------------------|------|
| Product name       | SVM 85 700-2100 110-277V 1-10V NFC |      |
| Order code         | 142062                             |      |
| EAN (GTIN)         | 8010703891999                      |      |
| Pieces per box     | 30                                 |      |
| Product weight     | 264                                | Gr   |
| Made in            | Italy                              |      |

## Electrical input data

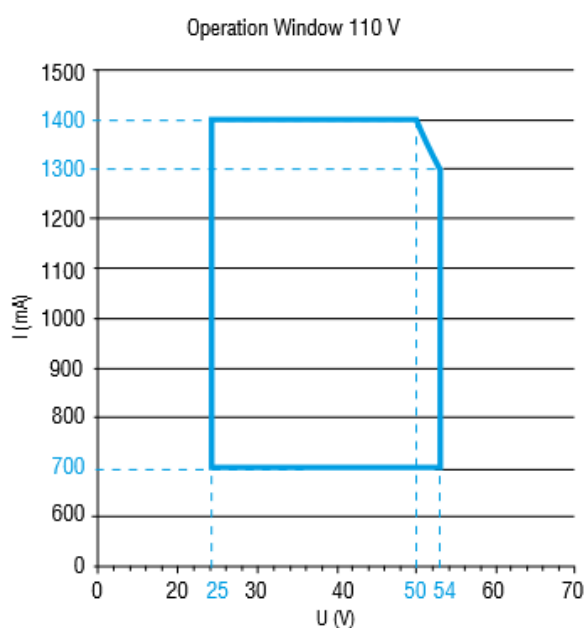
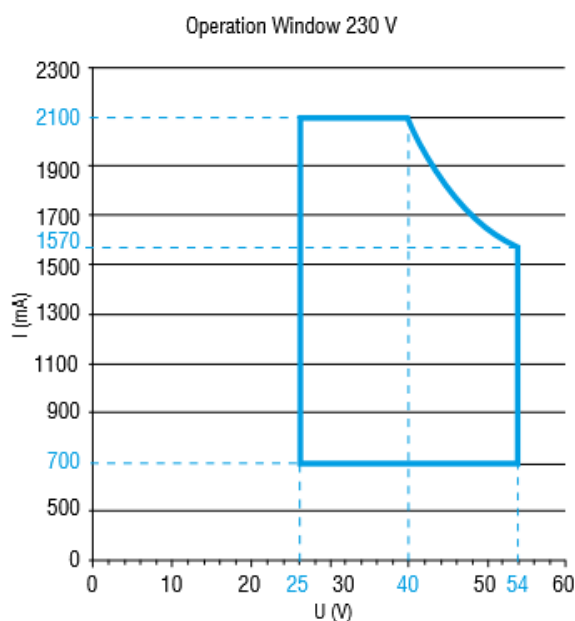
| Specification item        | Value                       | Unit | Condition                             |
|---------------------------|-----------------------------|------|---------------------------------------|
| Rated input voltage       | 110...120 / 220...240 / 277 | Vac  |                                       |
| Input voltage AC range    | 100...305                   | Vac  |                                       |
| Input voltage DC range    | 176...276                   | Vdc  | Factory default 100%<br>EOFi= 1       |
| Rated input frequency     | 50...60                     | Hz   |                                       |
| Rated input current       | 0,409                       | A    | Referred to Vin = 230 V,<br>100% load |
| Rated input power         | 92,47                       | W    | Referred to Vin = 230V,<br>100% load  |
| Power factor              | 0,85 C                      | λ    | Pout > 25W                            |
| THD                       | < 10                        | %    | Referred to Vin = 230 V,<br>100% load |
| Efficiency                | 92                          | %    | Referred to Vin = 230 V,<br>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...85          | W    |           |
| Output current ripple           | < 3              | %    |           |
| Output Pst LM                   | < 1              |      |           |
| Output SVM                      | < 0,4            |      |           |

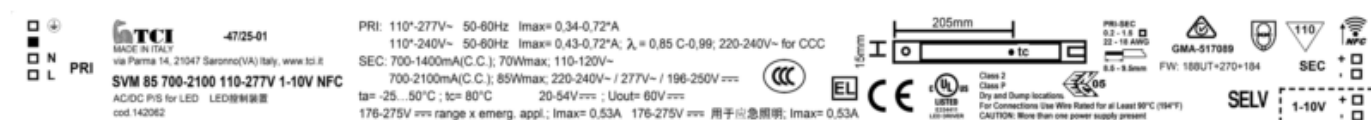
## Operating window (230V)

## Operating window (110V)



## 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     | 1-10V   |      |           |
| Dimming range      | 1...100 | %    |           |

## Wiring and connections

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

## Wiring diagrams

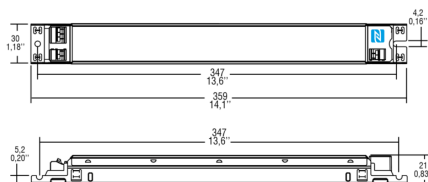


1...10 V diagram  
Collegamento 1...10 V



WIRELESS PROGRAMMING diagram  
Collegamento per PROGRAMMAZIONE WIRELESS

## Dimensions



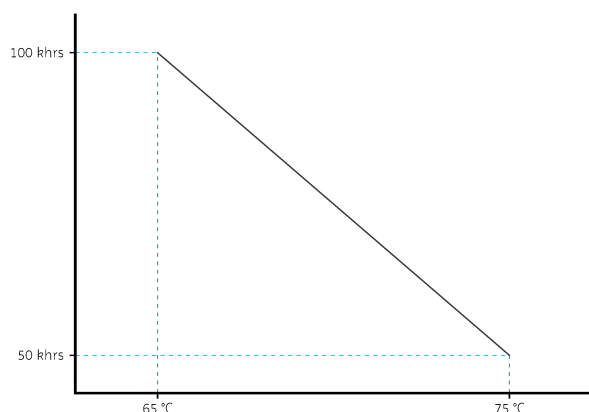
## Insulation

|             |                      |
|-------------|----------------------|
| PRI - SEC   | double or reinforced |
| PRI - 1-10V | double or reinforced |
| 1-10V - SEC | supplementary        |

### Operation temperatures and humidity

| Specification item          | Value     | Unit | Condition                                            |
|-----------------------------|-----------|------|------------------------------------------------------|
| Ambient temperature         | -25...+50 | °C   |                                                      |
| T <sub>c</sub>              | 80        | °C   | Maximum temperature measured at T <sub>c</sub> 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     |           |

### Programmable features

| Specification item                  | Available | Default setting | Condition                                                           |
|-------------------------------------|-----------|-----------------|---------------------------------------------------------------------|
| Set Adjustable Output Current (AOC) | NFC       | 700mA           |                                                                     |
| Setting 1-10V                       | Yes       | OFF             | Linear, linear soft, logarithmic curve and related control voltages |

### 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 CCC |
| Application        | Linear dimmable         |
| Mounting type      | Built-in                |

Performance curves

