



Product data

| Specification item | Value | Unit |
|--------------------|-----------------------|------|
| Product name | DC MINI JOLLY DALI BI | |
| Order code | 125403BI | |
| EAN (GTIN) | 8010703381377 | |
| Pieces per box | 50 | |
| Product weight | 94 | Gr |
| Made in | Italy | |

Electrical input data

| Specification item | Value | Unit | Condition |
|---------------------------|-----------------------|-----------|---------------------------------------|
| Rated input voltage | 110...127 / 220...240 | Vac | |
| Input voltage AC range | 99...264 | Vac | |
| Input voltage DC range | 176...280 | Vdc | Factory default 100% EOFi= 1 |
| Rated input frequency | 50...60 | Hz | |
| Rated input current | 0,064 | A | Referred to Vin = 230 V, 100% load |
| Rated input power | 14,04 | W | Referred to Vin = 230V, 100% load |
| Power factor | 0,95 | λ | |
| THD | < 10 | % | Referred to Vin = 230 V, 100% load |
| Efficiency | 87 | % | 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 / Constant voltage | | |
| Output voltage | 3...49 | Vdc | |
| Output voltage max. | 55 | V | Open load |
| Output current | 250...700 | mA | |
| Output current min programmable | 250 | mA | |
| Output current min dimming | 7 | mA | |
| Output current tolerance | 5 | % | |
| Output power | 1...20 | 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

DC MINI JOLLY DALI BI
Dimmable AC/DC P/S for LED
MADE IN ITALY
cod. 125403BI

DALI FW188M+145A • tc

PRI: 110-240 V 50/60 Hz $\lambda_{max}=0,92$ C-0,97 $I_{max}=0,18$ A
SEC: 20Wmax (*15W@110-127V); 250-700mA
($I_{out}=55V$); 24V acc.to the S1 selection
 $t_a=-25...45^{\circ}C$; $t_c=75^{\circ}C$

176-280Vdc emerg. range; $I_{max}=0,14$ A Class2 GMA-506519

SHORT CIRCUIT NTC DURING SWITCH ON TO SET PWM DIM

| Pout | SEC | 1 | 2 | 3 | 4 |
|------|--------|----|----|----|----|
| 12 W | 250 mA | - | - | - | - |
| 17 W | 350 mA | - | - | - | ON |
| 19 W | 400 mA | - | - | ON | - |
| 20 W | 450 mA | - | ON | - | - |
| 20 W | 500 mA | - | - | ON | ON |
| 20 W | 550 mA | - | ON | - | ON |
| 20 W | 600 mA | - | ON | ON | - |
| 20 W | 700 mA | - | ON | ON | ON |
| 16 W | 24 V | ON | ON | ON | ON |

DA1: supplementary insulation to SELV circuit
DA2: basic insulation to PRI circuit

R L N DA2 DA1: SELV NTC SEC

J3 P3

4 3 2 1

8,5 - 9,5mm

Operating window 230V

| Pout W | Vout DC | Iout mA |
|--------|----------|---------|
| 12 | 15...49 | 250 |
| 17 | 10...49 | 350 |
| 19 | 5...49 | 400 |
| 20 | 5...45 | 450 |
| 20 | 5...40 | 500 |
| 20 | 3...36 | 550 |
| 20 | 3...33 | 600 |
| 20 | 3...28 | 700 |
| 16 | 24 cost. | 700 |

Operating window 110V

| Pout W | Vout DC | Iout mA |
|--------|----------|---------|
| 12 | 15...49 | 250 |
| 15 | 10...42 | 350 |
| 15 | 5...37 | 400 |
| 15 | 5...45 | 450 |
| 15 | 5...30 | 500 |
| 15 | 3...27 | 550 |
| 15 | 3...25 | 600 |
| 15 | 3...21 | 700 |
| 15 | 24 cost. | 625 |

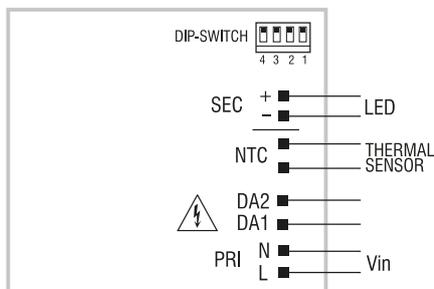
Electrical data controls input

| Specification item | Value | Unit | Condition |
|--------------------|------------|------|--|
| Control method | DALI-2 | | Default dimming: AM-PWM: 1-25% PWM (2kHz) 25 -100% AM. Full PWM dimming (240Hz - 1-100%) available by short circuit of NTC port during switch on of the driver. Same operation to reset to AM-PWM. |
| Dimming range | 0,5...100% | % | |

Wiring and connections

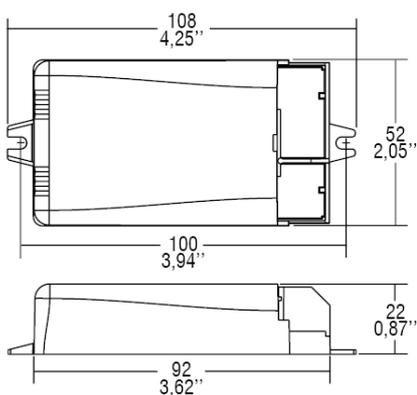
| Specification item | Value | Unit | Condition |
|----------------------------|---------------------|-----------------------|-----------------------------------|
| Input wire cross section | 0.5...1.5 / 20...15 | mm ² / AWG | L - N |
| Input wire strip length | 8.5...9.5 | mm | |
| Output wires cross section | 0.5...1.5 / 20...15 | mm ² / AWG | SEC, NTC |
| Output wire strip length | 8...8.5 | mm | |
| Control wire cross section | 0.5...1.5 / 20...15 | mm ² / AWG | DA - DA |
| Control wire strip length | 8.5...9.5 | mm | |
| Max. cable length | | cm | Max. LED distance see page info 8 |

Wiring diagram



DALI diagram - Collegamento DALI

Dimensions



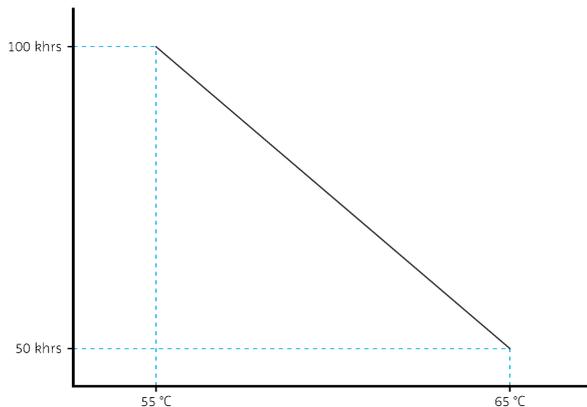
Insulation

| Specification item | Output | Controls | Earth |
|--------------------|----------------------|----------|-------|
| Input | double or reinforced | basic | N/A |
| Output | N/A | N/A | N/A |

Operation temperatures and humidity

| Specification item | Value | Unit | Condition |
|-----------------------------|----------|------|--|
| Ambient temperature | -25...45 | °C | |
| T _c | 75 | °C | Maximum temperature measured at T _c point |
| Maximum housing temperature | 120 | °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 |

Programmable features

| Specification item | Available | Default setting | Condition |
|-------------------------------------|------------|-----------------|-----------|
| Set Adjustable Output Current (AOC) | DIP-SWITCH | 250mA | |
| Min Dimming Level | Yes | 0,5% | |
| DALI part 251 | Yes | OFF | |

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/II | |
| DALI part 101 | Yes | |
| DALI part 102 | Yes | |
| DALI part 207 | Yes | |

In rush current

| Specification item | Value | Unit | Condition |
|--------------------------|-------|----------|-----------|
| In rush current | 5/50 | A / usec | |
| Drivers / MCB 16A type B | 50 | pcs | |

Driver touch current / protective conductor current

| Specification item | Value | Unit | Condition |
|--------------------------------------|-------|------|-----------|
| Typical Protective Conductor Current | 0,104 | mA | |

Surge immunity

| Specification item | Value | Unit | Condition |
|-----------------------------------|-------|------|-----------|
| Mains surge immunity (diff. mode) | 2 | kV | |
| Mains surge immunity (comm. mode) | 3 | kV | |

Application info

| Specification item | Value |
|--------------------|-------------------------|
| Approval marks | CE ENEC EAC UL UKCA BIS |
| Application | Compact dimmable indoor |
| Mounting type | Built-in |

Performance curves

