

QTi 2X35/49/80 DIM

QUICKTRONIC INTELLIGENT DIM T5 | ECG dimmable 1...10 V for FL 16 mm



Product family features

- Control via 1...10 V interface
- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Dimming range: 1...100 % luminous flux
- Lamp start: within 0.6 s
- Lifetime: > 100,000 h (for T = 65 °C at T_c)
- Automatic shutdown of defective lamps and at end of life (EoL T.2)
- Energy Efficiency Index EEI: A1 BAT
- Overtemperature protection: Thermal management at high t_c temperatures
- Safety: to EN 61347-2-3
- Lamp operation: to EN 60929
- RI suppression: to EN 55015:2006+A1:2007+A2:2009/CISPR 15
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547

Product family benefits

- Same luminous flux with direct and alternating current
- Perfect lamp start for applications with motion sensors
- Dimming of amalgam lamps without flickering or reduced lifespan
- Very high efficiency thanks to cut-off technology
- Automatic restart after lamp replacement
- ECGs comply with MINERGIE standard due to very low standby consumption
- Configurable emergency power characteristics

Areas of application

- Suitable for emergency installations
- Industry
- Open-plan offices, corridors and storage rooms
- Public buildings
- Suitable for luminaires of protection class I

Product datasheet

Technical data

Electrical data

| | |
|--|-----------------|
| Input voltage AC | 198...264 V |
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Input voltage DC | 154...276 V |
| Operating frequency | 44...120 kHz |
| Max. ECG no. on circuit breaker 10 A (B) | 5 ¹⁾ |
| Max. ECG no. on circuit breaker 16 A (B) | 9 ¹⁾ |
| Inrush current | 60 A |

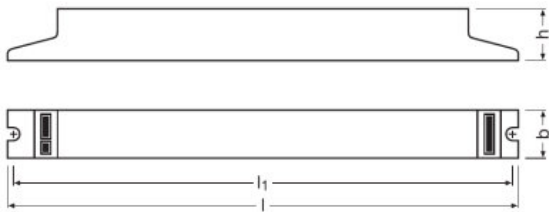
¹⁾ Type B

Light technical data

| | |
|---------------|---------------------|
| Starting time | 0.6 s ¹⁾ |
|---------------|---------------------|

¹⁾ Optimized preheat start

Dimensions & weight



| | |
|----------------------------------|---|
| Length | 423.0 mm |
| Width | 30.0 mm |
| Height | 21.0 mm |
| Mounting hole spacing, length | 415.0 mm |
| Product weight | 370.00 g |
| Cable cross-section, output side | 0.5...1.5 / 0.5...1.0 mm ² ¹⁾ |
| Cable cross-section, input side | 0.5...1.5 / 0.5...1.0 mm ² ¹⁾ |

¹⁾ Solid leads / Flexible

Temperatures & operating conditions

| | |
|---------------------------|--------------|
| Ambient temperature range | +10...+50 °C |
|---------------------------|--------------|

Product datasheet

| | |
|--|------------------------|
| Permitted rel. humidity during operation | 5...85 % ¹⁾ |
|--|------------------------|

¹⁾ Maximum 56 days/year at 85 %

Lifespan

| | |
|--------------|------------------------|
| ECG lifetime | 100000 h ¹⁾ |
|--------------|------------------------|

¹⁾ At $T_{case} = 65^{\circ}\text{C}$ at $T_{c \text{ point}}$ / 10% failure rate

Additional product data

| | |
|-----------------------------------|-----------|
| Suitable for lamp power (2 lamps) | 35...80 W |
|-----------------------------------|-----------|

Capabilities

| | |
|--|--|
| Dimming interface | 1...10 V |
| Dimming range | 1...100 % ¹⁾ |
| Dimmable | Yes |
| Overheating protection | Power reduction and switch off at $T > 75^{\circ}\text{C}$ at the tc point |
| Suitable for fixtures with prot. class | I |
| End of lamp life safety shutdown | EOL T.2 |
| Max. cable length to lamp/LED module | 1.0 m / 1.5 m |

¹⁾ Luminous flux

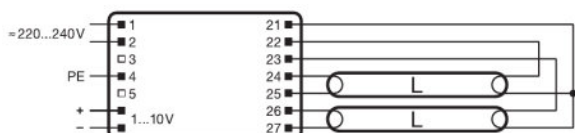
Certificates & standards

| | |
|---------------------------|---|
| Approval marks – approval | VDE / VDE-EMC / EL / EAC / RCM / CCC |
| Standards | Acc. to EN 61347-2-3/Acc. to EN 60929/Acc. to EN 55015:2006 + A1:2007/Acc. to EN 61000-3-2/Acc. to EN 61547 |
| EEL – Energy Label | A1 BAT |
| Protection class | I |
| Type of protection | IP20 |

Logistical data










| | |
|----------------|--------------|
| Commodity code | 850410809000 |
|----------------|--------------|

Wiring Diagram












319620_QTi 2x...DIM

Download Data

| File | |
|---|--|
|  | Addon Technical Information 502689_Frequent switching Quicktronic |
|  | Addon Technical Information 502785_ECG lifetime - QUICKTRONIC (DALI) DIM |
|  | Product Datasheet 321503_ATI QTi 2X354980220-240 DIM (G+GB) |
|  | Certificates 334953_EMC-Marks approval |
|  | Certificates 335097_INOTEC |
|  | Certificates QTI DALI VDE 40021252 210920 |
|  | Certificates 335135_Manufacturer's declaration – Burning-in of fluorescent lamps |
|  | Certificates 335153_Manufacturer's declaration – Low stand-by |
|  | Certificates 335154_Manufacturer's declaration – EN 55015:2006+A1:2007 (300 MHz) |

Product datasheet

| | |
|---|---|
|  | Certificates 335169_Manufacturer's declaration – LampECG combinations: Frequent switching |
|  | Certificates 592319_EAC certificate for Quicktronics QT |
|  | Certificates 504208_VDE-EMC-CERTIFICATE QT1 DALI DIM |
|  | Declarations of conformity Quicktronic DIM CE 3364258 180121 |
|  | Operating instructions 592412_EAC QT1 T5 DIM |
|  | CAD data 3-dim 313428_423x30x21 1881282 |
|  | CAD data 3-dim 313430_423x30x21 1881282 |
|  | CAD data 3-dim 313444_423x30x21 1881282 |
|  | CAD data PDF 313416_423x30x21 1881282 |

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|---------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4050300870984 | QT1 2X35/49/80 DIM | Shipping carton box 20 | 435 mm x 96 mm x 170 mm | 7.10 dm ³ | 7642.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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QUICKTRONIC INTELLIGENT DIM T5 | ECG dimmable 1...10 V for FL 16 mm

| Product name | Lamp group | Nominal current | Nominal wattage + Power loss | Power factor λ [PIM] | Luminous flux at 35 °C | Number of lighting outlets |
|--------------------|--------------|-----------------|------------------------------|------------------------------|------------------------|----------------------------|
| QTi 2X35/49/80 DIM | DULUX L 80 W | 0.74 A | 165.00 W | 0.99 | 6000 lm | 2 |
| | HE 35 W | 0.34 A | 74.00 W | 0.95 | 3300 lm | 2 |
| | HE 35 W XT | 0.34 A | 74.00 W | 0.95 | 3300 lm | 2 |
| | HO 45 W ES | 0.45 A | 101.00 W | 0.97 | 4600 lm | 2 |
| | HO 49 W | 0.46 A | 103.00 W | 0.97 | 4300 lm | 2 |
| | HO 80 W | 0.74 A | 165.00 W | 0.99 | 6150 lm | 2 |
| | HO 80 W XT | 0.74 A | 165.00 W | 0.99 | 6150 lm | 2 |