

QTP-OPTIMAL 1X54...58

QUICKTRONIC PROFESSIONAL OPTIMAL | ECG for FL and CFL, not dimmable



Areas of application

- Emergency lighting systems acc. to EN 50172 / DIN VDE 0108-100
- Industry
- Open-plan offices, corridors and storage rooms
- Public buildings
- Sports halls and factories
- Strip lighting
- Suitable for emergency lighting (DC operation)
- Modernization of existing systems
- Suitable for luminaires of protection classes I and II

Product family benefits

- Long lamp life
- No adverse effect from frequent on/off switching
- Automatic restart after lamp replacement
- Perfect lamp start for applications with motion sensors
- VDE/VDE EMC certified system
- Very high energy efficiency due to cut-off technology

Product family features

- Supply voltage: 220...240 V
- Line voltage: 198...264 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Lamp start with optimum filament preheating
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- Energy Efficiency Index EEI: A2 BAT
- Automatic shutdown of defective lamps and at end of life (EoL T.2)
- Safety: to EN 61347-2-3
- Lamp operation: to EN 60929

Technical data

Electrical data

| | |
|--|------------------|
| Input voltage AC | 198...264 V |
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Input voltage DC | 176...276 V |
| Operating frequency | 40...50 kHz |
| Max. ECG no. on circuit breaker 10 A (B) | 12 ¹⁾ |
| Max. ECG no. on circuit breaker 16 A (B) | 19 ¹⁾ |

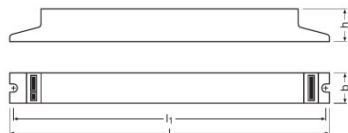
¹⁾ Type B

Light technical data

| | |
|---------------|---------------------|
| Starting time | 1.5 s ¹⁾ |
|---------------|---------------------|

¹⁾ If there is a temporary interruption in the power supply (< 0.5 s), the lamp will start within 0.3 s

Dimensions & weight



| | |
|-------------------------------|----------|
| Length | 280.0 mm |
| Width | 30.0 mm |
| Height | 21.0 mm |
| Mounting hole spacing, length | 270.0 mm |
| Product weight | 180.00 g |

Temperatures & operating conditions

| | |
|--|------------------------|
| Ambient temperature range | -20...+50 °C |
| Permitted rel. humidity during operation | 5...85 % ¹⁾ |

¹⁾ Maximum 56 days/year at 85 %

Lifespan

Product datasheet

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

¹⁾ At T_{case} = 65°C at T_c point / 10% failure rate

Expected Lifetime

| Product name | Lamp group | | | | |
|--------------------------|--------------|------------------------------|--------|--------|-------|
| QTP-OPTIMAL 1X54...58 | DULUX L 55 W | ECG ambient temperature [ta] | 40 | 50 | 60 |
| | | Temperature at tc-point [°C] | 55 | 60 | 70 |
| | | Lifetime [h] | 100000 | 100000 | 70000 |
| | L 58 W | ECG ambient temperature [ta] | 40 | 50 | 60 |
| | | Temperature at tc-point [°C] | 55 | 60 | 70 |
| | | Lifetime [h] | 100000 | 100000 | 80000 |

Additional product data

| | |
|----------------------------------|-----------|
| Suitable for lamp power (1 lamp) | 54...58 W |
|----------------------------------|-----------|

Capabilities

| | |
|--|---------------|
| Suitable for fixtures with prot. class | I / II |
| End of lamp life safety shutdown | EOL T.2 |
| Max. cable length to lamp/LED module | 2.0 m / 1.0 m |
| Dimmable | No |

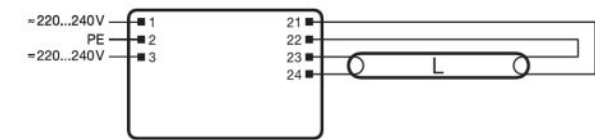
Certificates & standards

| | |
|---------------------------|--|
| Approval marks – approval | EL / VDE / ENEC 10 / VDE-EMC |
| EEI – Energy Label | A2 BAT |
| Standards | Acc. to IEC 61347-2-3 / App. J/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to IEC 61000-3-2/Acc. to IEC 61547 |
| Protection class | III |
| Type of protection | IP20 |

Logistical data











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

Wiring Diagram



Wiring diagram

Download Data

| File | |
|---|--|
|  | Addon Technical Information 502689_Frequent switching Quicktronic |
|  | Product Datasheet 502688_ECG lifetime - QUICKTRONIC non DIM |
|  | Product Family Datasheet 346489_Familiendatenblatt QTP-Optimal |
|  | Certificates 592319_EAC certificate for Quicktronics QT |
|  | Certificates 349650_QTP-OPTIMAL VDE Certificate |
|  | Certificates 346505_ENEC QTP-Optimal |
|  | Certificates 346506 EMC QTP-Optimal |
|  | Certificates 346512_CE QTP-Optimal |
|  | Declarations of conformity 709431_Declaration of Conformity |
|  | Operating instructions 590771_EAC QTP-OPTIMAL |

Product datasheet

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-----------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4008321873729 | QTP-OPTIMAL 1X54...58 | Shipping carton box 20 | 303 mm x 159 mm x 101 mm | 4.87 dm ³ | 3766.00 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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| Product name | Lamp group | Nominal current | Nominal wattage + Power loss | Luminous flux at 35 °C | Number of lighting outlets |
|-----------------------|--------------|-----------------|------------------------------|------------------------|----------------------------|
| QTP-OPTIMAL 1X54...58 | DULUX L 55 W | 0.24 A | 50.00 W | 4800 lm | 1 |
| | HO 50 W ES | 0.26 A | 54.00 W | 4450 lm | 1 |
| | HO 54 W | 0.26 A | 54.00 W | 4450 lm | 1 |
| | HO 54 W XT | 0.26 A | 54.00 W | 4450 lm | 1 |
| | L 58 W | 0.25 A | 54.00 W | 5000 lm | 1 |
| | L 58 W XT | 0.25 A | 54.00 W | 5000 lm | 1 |
| | L 58 W XXT | 0.25 A | 54.00 W | 5000 lm | 1 |