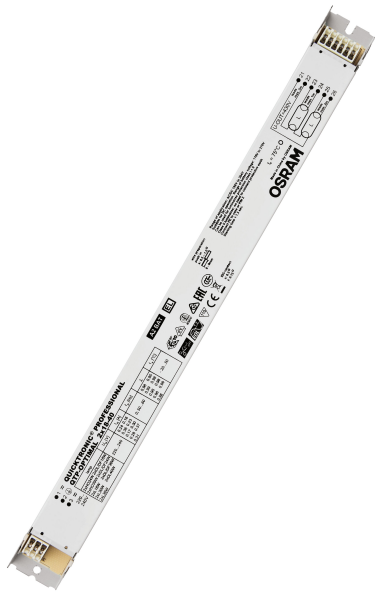


## PRODUCT DATASHEET

### QTP-OPTIMAL 2X18...40

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 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 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  $T_c = 65\text{ °C}$ , 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

|  |                  |
|--|------------------|
| Nominal wattage                          | 86.00 W          |
| Nominal voltage                          | 220...240 V      |
| Input voltage AC                         | 198...264 V      |
| Input voltage DC                         | 176...276 V      |
| U-OUT (working voltage)                  | 430 V            |
| Inrush current                           | 37 A             |
| Mains frequency                          | 50/60 Hz         |
| Max. ECG no. on circuit breaker 10 A (B) | 12 <sup>1)</sup> |
| Max. ECG no. on circuit breaker 16 A (B) | 19 <sup>1)</sup> |
| Operating frequency                      | 40...50 kHz      |

<sup>1)</sup> Type B

### Light technical data

|               |       |
|---------------|-------|
| Starting time | 1.5 s |
|---------------|-------|

### Dimensions & Weight

|                               |           |
|-------------------------------|-----------|
| Length                        | 360.00 mm |
| Mounting hole spacing, length | 350,0 mm  |
| Width                         | 30.00 mm  |
| Height                        | 21.00 mm  |
| Product weight                | 243.7 g   |

### Colors & materials

|                 |       |
|-----------------|-------|
| Casing material | Metal |
| Body material   | Metal |

### Temperatures & operating conditions

|  |                        |
|--|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 75 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

<sup>1)</sup> Maximum 56 days/year at 85 %

## Lifespan

|              |                        |
|--------------|------------------------|
| ECG lifetime | 100000 h <sup>1)</sup> |
|--------------|------------------------|

<sup>1)</sup> At T<sub>case</sub> = 65°C at T<sub>c</sub> point / 10% failure rate

## Capabilities

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







## Certificates &amp; Standards



|                           |  |
|---------------------------|--|
| Approval marks – approval | EL / VDE / ENEC 10 / VDE-EMC   |
| 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          | I  |
| Type of protection        | IP20   |
| Energy efficiency class   | A2 BAT   |
| EEL – Energy Label        | A2 BAT   |

## LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -40...+85 °C |
|------------------------------|--------------|

## DOWNLOAD DATA

| Documents and certificates   |  | Document name                         |
|--|--|---------------------------------------|
|  | User instruction / safety instructions | 590771_EAC QTP-OPTIMAL                |
|  | Declarations of conformity             | 339525_Declaration of Conformity (GB) |
|  | Certificates                           | 554891_EAC PT family                  |
|  | Certificates                           | 346506_EMC QTP-Optimal                |
|  | Certificates                           | 346505_ENEC QTP-Optimal               |
|  | Certificates                           | 346512_CE QTP-Optimal                 |

| Documents and certificates   |                          | Document name                         |
|--|--------------------------|---------------------------------------|
|  | Certificates             | 349650_QTP-OPTIMAL VDE Certificate    |
|  | Product family datasheet | 346489_Familiendatenblatt QTP-Optimal |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4008321873767 | Unpacked<br>1                |                                      | 243.70 g     |                      |
| 4008321873774 | Shipping box<br>20           | 385 mm x 160 mm x 100 mm             | 5045.00 g    | 6.16 dm <sup>3</sup> |

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.