

QTP-OPTIMAL 1X18...40

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



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 $T_c = 65$ °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

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

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 datasheet

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) | 17 ¹⁾ |
| Max. ECG no. on circuit breaker 16 A (B) | 28 ¹⁾ |
| Inrush current | 24 A |

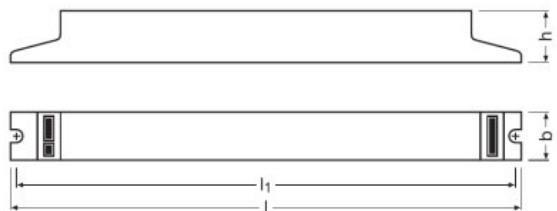
¹⁾ Type B

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 %

Product datasheet

Lifespan

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

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

Expected Lifetime

| Product name | Lamp group | | | | |
|--------------------------|------------|------------------------------|--------|--------|-------|
| QTP-OPTIMAL 1X18...40 | HO 24 W | ECG ambient temperature [ta] | 40 | 50 | 60 |
| | | Temperature at tc-point [°C] | 50 | 60 | 70 |
| | | Lifetime [h] | 100000 | 100000 | 80000 |
| | HO 39 W | ECG ambient temperature [ta] | 40 | 50 | 60 |
| | | Temperature at tc-point [°C] | 55 | 60 | 70 |
| | | Lifetime [h] | 100000 | 100000 | 80000 |
| | L 18 W | ECG ambient temperature [ta] | 40 | 50 | 60 |
| | | Temperature at tc-point [°C] | 50 | 60 | 70 |
| | | Lifetime [h] | 100000 | 100000 | 90000 |
| | L 30 W | ECG ambient temperature [ta] | 40 | 50 | 60 |
| | | Temperature at tc-point [°C] | 50 | 60 | 70 |
| | | Lifetime [h] | 100000 | 100000 | 80000 |
| | L 36 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) | 18...40 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 |
| Standards | Acc. to IEC 61347-2-3 / App. J/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to IEC 61000-3-2/EN 61000-3-2/Acc. to IEC 61547 |

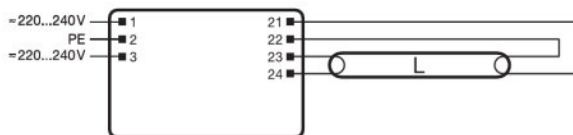
Product datasheet

| | |
|--------------------|------|
| Protection class | I |
| Type of protection | IP20 |

Logistical data

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

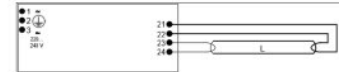
Wiring Diagram



QUICKTRONIC® PROFESSIONAL OPTIMAL

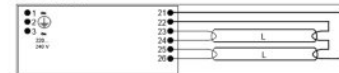
| | QTP-OPTIMAL 1X18-40 | QTP-OPTIMAL 1X18-40 | QTP-OPTIMAL 1X18-40 | QTP-OPTIMAL 1X18-40 |
|------|---------------------|---------------------|---------------------|---------------------|
| 18 W | 17.5 | 12.5 | 12.5 | 8.1 |
| 18 W | 8.750000 W | 8.750000 W | 8.750000 W | 8.750000 W |
| 18 W | 20 x | 18 x | 18 x | 15 x |
| 18 W | 8.750000 W | 8.750000 W | 8.750000 W | 8.750000 W |
| 18 W | < 24 A | < 37 A | < 37 A | < 37 A |
| 18 W | 230 µs | 230 µs | 230 µs | 150 µs |

QTP-OPTIMAL 1x..



Max. permitted cable length between ECG and lamp: 2.0 m (PIN 21, 22); 1.8 m (PIN 23, 24)

QTP-OPTIMAL 2x..



Max. permitted cable length between ECG and lamp: 2.8 m (PIN 21, 22, 25, 26); 1.8 m (PIN 23, 24)

① Max. Leitungslänge zwischen EVO und Lampe; Leitungslänge max.: Hauptlampe
 ② Максимальная длина проводов между ЭВЭ и лампой
 ③ Кабельная сеть или проводка должна соответствовать стандартам

OSRAM








319638_QTP5 1x..

590771_EAC QTP-OPTIMAL

Download Data

| File |
|--|
| Addon Technical Information 502689_Frequent switching Quicktronic |
| Product Datasheet 502688_ECG lifetime - QUICKTRONIC non DIM |
| Certificates 592319_EAC certificate for Quicktronics QT |
| Certificates 349650_QTP-OPTIMAL VDE Certificate |
| Certificates 346505_ENEC QTP-Optimal |

Product datasheet

| | |
|---|---|
|  | Certificates 346506_EMQ QTP-Optimal |
|  | Certificates 346512_CE QTP-Optimal |
|  | Declarations of conformity Quicktronic CE 3364256 090421 |
|  | CAD data QTP OPTIMAL 1x18-40 IGS 250320 |
|  | CAD data QTP OPTIMAL 1x18-40 STEP 250320 |
|  | CAD Data 2-dim QTP OPTIMAL 1x18-40 CAD2PDF 250320 |
|  | CAD data 3-dim QTP OPTIMAL 1x18-40 CAD3PDF 250320 |

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-----------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4008321873743 | QTP-OPTIMAL 1X18...40 | Shipping carton box 20 | 312 mm x 166 mm x 98 mm | 5.08 dm ³ | 3506.00 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.

QTP-OPTIMAL 1X18...40

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

| Product name | Lamp group | Nominal current | Nominal wattage + Power loss | Power factor λ [PIM] | Luminous flux at 35 °C | Number of lighting outlets | Luminous flux at 25 °C |
|-----------------------|----------------|-----------------|------------------------------|------------------------------|------------------------|----------------------------|------------------------|
| QTP-OPTIMAL 1X18...40 | DULUX F 18 W | 0.08 A | 18.00 W | 0.90 c | 1050 lm | 1 | |
| | DULUX F 24 W | 0.12 A | 25.00 W | 0.95 | 1650 lm | 1 | |
| | DULUX F 36 W | 0.15 A | 34.00 W | 0.98 | 2700 lm | 1 | |
| | DULUX L 18 W | 0.09 A | 19.00 W | 0.90 c | 1150 lm | 1 | |
| | DULUX L 24 W | 0.12 A | 27.00 W | 0.95 | 1750 lm | 1 | |
| | DULUX L 36 W | 0.16 A | 35.00 W | 0.98 | 2800 lm | 1 | |
| | DULUX L 40 W | 0.20 A | 44.00 W | 0.98 | 3500 lm | 1 | |
| | HNS 16 4P SE | | | | | | |
| | HNS 16W G5 | | | | | | |
| | HNS 20 4P SE | | | | | | |
| | HNS-L 18W 2G11 | | | | | | |
| | HNS-L 24W 2G11 | | | | | | |
| | HO 24 W | 0.13 A | 28.00 W | 0.98 | 1750 lm | 1 | |
| | HO 39 W | 0.13 A | 41.00 W | 0.98 | 3100 lm | 1 | |
| | L 15 W | 0.08 A | 17.00 W | 0.95 | 950 lm | 1 | |
| | L 18 W | 0.10 A | 20.00 W | 0.95 | 1350 lm | 1 | |
| | L 23 W | 0.14 A | 31.10 W | | | 1 | 1900 lm |

Product datasheet

| Product name | Lamp group | Nominal current | Nominal wattage + Power loss | Power factor λ [PIM] | Luminous flux at 35 °C | Number of lighting outlets | Luminous flux at 25 °C |
|--------------|------------|-----------------|------------------------------|------------------------------|------------------------|----------------------------|------------------------|
| | L 30 W | 0.15 A | 36.00 W | 0.95 | 2850 lm | 1 | |
| | L 36 W -1 | 0.15 A | 36.00 W | 0.98 | 3100 lm | 1 | |
| | L 36 W | 0.16 A | 36.00 W | 0.98 | 3200 lm | 1 | |
| | L 40 W C | 0.18 A | 41.10 W | 0.98 | | 1 | 1*3200 lm |
| | NS 11W G5 | | | | | | |
| | NS 15W G13 | | | | | | |
| | NS 30W G13 | | | | | | |