

QTP-OPTIMAL 2X18...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 $T_c = 65^\circ\text{C}$, 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

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

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
Maximum output power	2 x 40 W
Efficiency in full-load	91 % ¹⁾
Operating frequency	40...50 kHz
Max. ECG no. on circuit breaker 10 A (B)	12 ²⁾
Max. ECG no. on circuit breaker 16 A (B)	19 ²⁾
Inrush current	37 A

¹⁾ at 230 V, 50 Hz

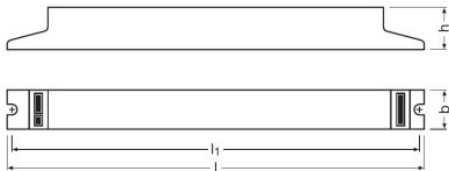
²⁾ Type B

Light technical data

Starting time	15 s ¹⁾
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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	3600 mm
Width	300 mm
Height	210 mm
Mounting hole spacing, length	350.0 mm
Product weight	24370 g

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
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Product datasheet

Permitted rel. humidity during operation	5...85 % ¹⁾
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¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	100000 h ¹⁾
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¹⁾ At $T_{case} = 65^{\circ}C$ at T_c point / 10% failure rate

Product name	Lamp group				
QTP-OPTIMAL 2X18...40	DULUX F 24 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	65
		Lifetime [h]	100000	100000	90000
	DULUX F 36 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	70000
	DULUX L 18 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	65
		Lifetime [h]	100000	100000	90000
	DULUX L 24 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	70
		Lifetime [h]	100000	100000	80000
	DULUX L 36 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	70000
	DULUX L 40 W	ECG ambient temperature [ta]	40	60	60
		Temperature at tc-point [°C]	60	65	75
		Lifetime [h]	100000	90000	50000
	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	60	60
		Temperature at tc-point [°C]	60	65	75
		Lifetime [h]	100000	90000	50000
	L 18 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	50	60	65
		Lifetime [h]	100000	100000	80000
	L 30 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	60	70
		Lifetime [h]	100000	100000	70000
	L 36 W	ECG ambient temperature [ta]	40	50	60
		Temperature at tc-point [°C]	55	65	70

Product datasheet

		Lifetime [h]	100000	100000	70000
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Additional product data

Suitable for lamp power (2 lamps)	18...40 W
Predecessor EAN	4008321117885

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
Intended for no-load operation	No

Certificates & standards

Approval marks – approval	EL / VDE / ENEC 10 / VDE-EMC
EEL – 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	I
Type of protection	IP20

Logistical data

Commodity code	85041080900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	19-05-2023
Primary Article Identifier	4008321873767
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	dfa68422-7944-47ea-b5d6-9a7a206b8d3c

Wiring Diagram

QUICKTRONIC® PROFESSIONAL OPTIMAL

	QTP-OPTIMAL 1x18W	QTP-OPTIMAL 1x24W	QTP-OPTIMAL 2x18W	QTP-OPTIMAL 2x24W
LED IC	17 x	12 x	12 x	8 x
LED IC	20 x	18 x	18 x	15 x
LED IC	≤ 24 A	≤ 37 A	≤ 37 A	≤ 37 A
LED	200 µs	200 µs	200 µs	100 µs

QTP-OPTIMAL 1x...
Max. permitted cable length between ECG and lamp: 2.0 m (PIN 21, 22), 1.0 m (PIN 23, 24)

QTP-OPTIMAL 2x...
Max. permitted cable length between ECG and lamp: 2.0 m (PIN 21, 22, 23, 24), 1.0 m (PIN 25, 26)

① Max. Leuchtstärke zwischen ECG und Lampe: Leuchtstärke max. 10000 lm
② Максимально допустимая длина кабеля между ЭЦП и лампой
③ Кабели для всех вариантов должны иметь экранирование

OSRAM

319639_QTP5 2x...

590771_EAC QTP-OPTIMAL

Additional product information

- In order to achieve good radio interference suppression:1. Keep the cable between ECG and lamp as short as possible.2. The single lamp wires must be routed as close as possible to each other, whereas the lines of the different lamp ends must be routed separately.

Download Data

File	
	User instruction QUICKTRONIC QTP OPTIMAL
	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_EMG QTP-Optimal
	Certificates 346512_CE QTP-Optimal
	Declarations of conformity QUICKTRONIC CE 3364256 060923

Ecodesign regulation information:

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321873767	QTP-OPTIMAL 2X18...40	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm ³	5045.00 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 2X18...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 2X18...40	DULUX F 18 W	0.16 A	33.00 W	0.95	1050 lm	2	
	DULUX F 24 W	0.23 A	50.00 W	0.98	1650 lm	2	
	DULUX F 36 W	0.30 A	67.00 W	0.98	2700 lm	2	
	DULUX L 18 W	0.16 A	36.00 W	0.95	1150 lm	2	
	DULUX L 24 W	0.23 A	53.00 W	0.98	1750 lm	2	
	DULUX L 36 W	0.30 A	70.00 W	0.98	2800 lm	2	
	DULUX L 40 W	0.37 A	88.00 W	0.99	3500 lm	2	
	HNS-L 18W 2G11						
	HNS-L 24W 2G11						
	HO 24 W	0.24 A	49.20 W	0.98	1750 lm	2	
	HO 39 W	0.24 A	82.90 W	0.99	3100 lm	2	
	L 15 W	0.15 A	31.00 W	0.95	950 lm	2	
	L 18 W	0.17 A	39.00 W	0.95	1350 lm	2	
	L 23 W	0.26 A	57.70 W			1	1900 lm
	L 30 W	0.28 A	63.00 W	0.98	2850 lm	2	
	L 36 W -1	0.30 A	71.00 W	0.98	3100 lm	2	
	L 36 W	0.30 A	71.00 W	0.98	3200 lm	2	

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
NS 36W G13							