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

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	40 W
Efficiency in full-load	90 % [1]
Operating frequency	40…50 kHz
Max. ECG no. on circuit breaker 10 A (B)	17 [2]
Max. ECG no. on circuit breaker 16 A (B)	28 [2]
Inrush current	24 A

[1] at 230 V, 50 Hz

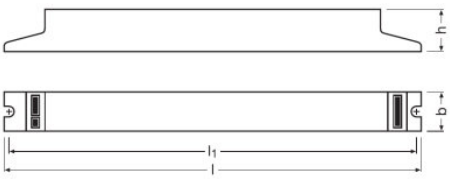
[2] Type B

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

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 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
Predecessor EAN	4008321117861, 4008321117908

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
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
Protection class	I
Type of protection	IP20

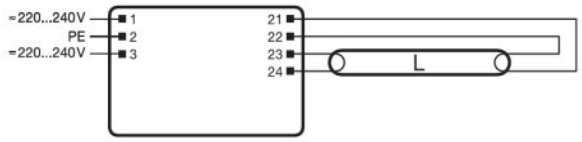
Logistical data

Commodity code	85041080900

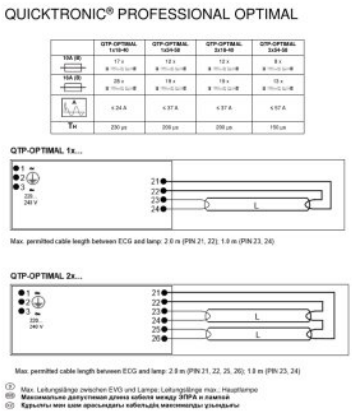
Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	19-05-2023
Primary Article Identifier	4008321873743
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	387e7a95-6a27-4cd3-bc67-50c20e064df8

Wiring Diagram



319638_QTP5 1x..



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

	Certificates 346506_EMC QTP-Optimal
	Certificates 346512_CE QTP-Optimal
	Declarations of conformity QUICKTRONIC CE 3364256 060923
	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

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
4008321873743	QTP-OPTIMAL 1X18...40	Shipping carton box 20	305 mm x 161 mm x 104 mm	5.11 dm^3	3777.00 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 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						