POWERTRONIC® PTi 50/220-240 S

For metal halide lamps 50 W

Technical Information
Edition: Sep. 2012
Subject to change

Technical data

Reference:	**PTi 50/220-240 S**
Lamp:	HCI 50 W and other similar commercially available lamps
System wattage:	54.5 W ± 1.5 W
Lamp wattage:	50 W ± 1.5 W
Ballast efficiency:	~ 92 %
Line voltage:	220 – 240 V_{AC}
Voltage range:	198 – 264 V_{AC}
Line frequency:	50/60 Hz
Line current:	0.24 A_{eff} @ 230 V_{AC}
Power factor λ:	> 0.95
Inrush current:	Max. 45 A / 250 µs @ 50%
Max. no. of ECG @ circuit breakers 10 A (B type):	7
Max. no. of ECG @ circuit breakers 16 A (B type) :	13
Max. no. of ECG @ circuit breakers 16 A (B type) in combination with EBN-OS:	32
Protective conductor current:	0.25 mA_{rms}
Operating frequency (50 / 60 Hz Line frequency):	200/240 Hz
U-OUT:	250 V
Max. working voltage between LH and LL:	250 V
Max. working voltage between LL/LH and earth:	250 V
Ambient temperature t_a:	-25 °C to +60 °C
Max. temperature at t_c test point:	+85 °C
ECG life time:	50000 h (@ t_c max.) [1]
Overheating protection:	Power reduction and shutdown at T at the t_c point > 85 ° C
Overvoltage protection:	275 V < U_{mains} < 300 V -> 48 h [2] 300 V < U_{mains} < 320 V -> 2 h [2] 320 V < U_{mains} < 350 V -> 5 min [3]
Min. ECG-reset time (by mains interrupt):	0.5 sec
Wire cross section input / output line:	0.5 – 2.5 mm²
Wire stripping:	10 – 11 mm
Max. wiring length ECG/lamp:	1.50 m
Max. capacitance of wire ECG/lamp:	120 pF
Ignition voltage:	4.5 kV
Limited ignition time:	20 min
Dimensions (l x w x h):	110 mm x 75 mm x 30 mm
Distance mounting wholes (l1):	99 mm x 64 mm
Weight:	≈ 255 g
Safety:	EN 61347-2-12 / IEC 61347-2-12
Radio interference suppression:	EN 55015 / CISPR 15
Harmonics of line current:	EN 61000-3-2 / IEC 61000-3-2
Immunity:	EN 61547 / IEC 61547
VDE-ENEC-sign:	40035813
VDE-EMC-sign:	40025469
Approval marks:	

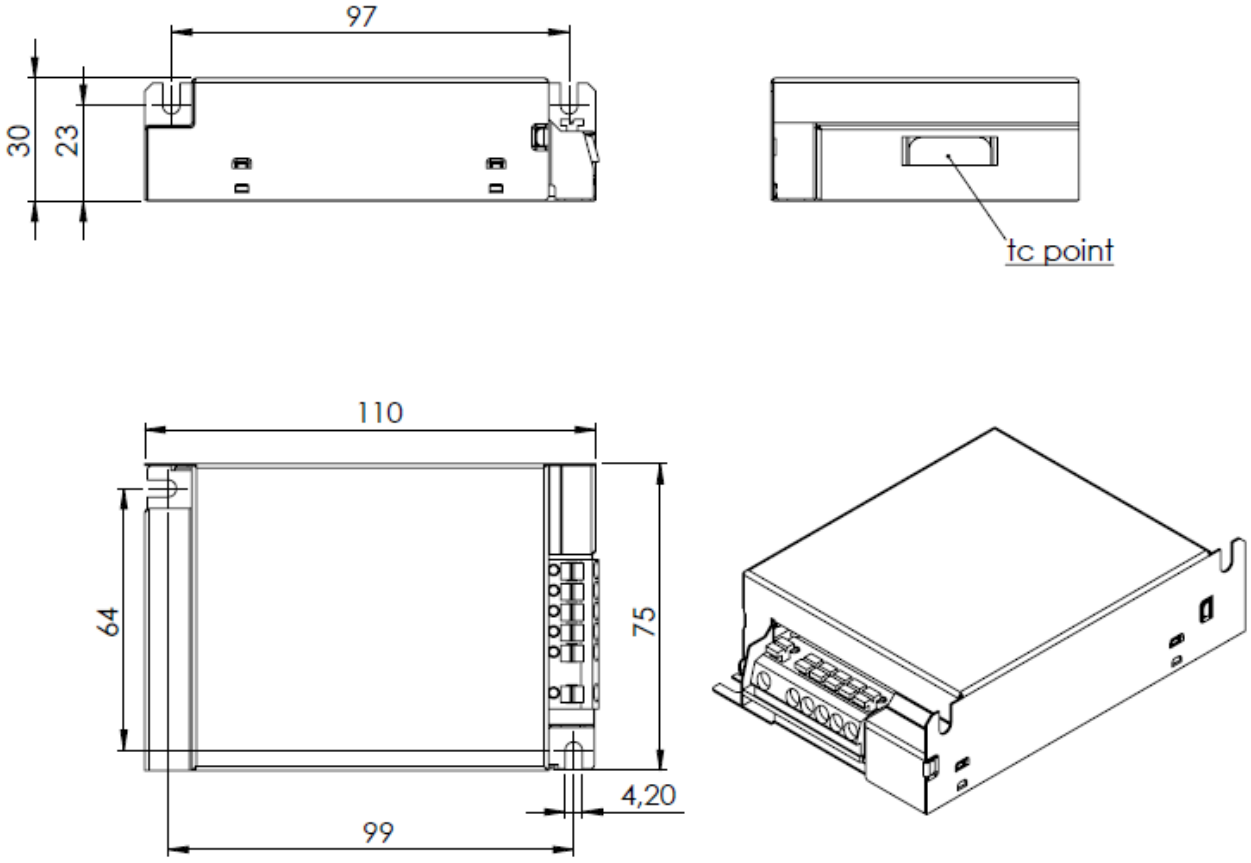
[1] with max. 10% failure rate at max. t_c
[2] ECG switches off after 40 sec
[3] ECG switches off or does not start

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Geometry



Product number:

Reference	EAN 10	EAN 40
PTi 50/220-240 S	4008321955852	4008321955944

Thermal characteristics

Ballast losses and lamp heat radiation can lead to heat accumulation in a complete closed case. Therefore it is necessary to ensure, that the temperature at the measuring point t_c does not exceed the maximum value.

Attention!

For safety reasons disconnect the device before replacing the lamp.
Any conductive material must have a minimum distance of 4mm to the front of the terminal block.

Wiring diagram

Installation by qualified electricians only.
Terminals for protective earth not suitable for any through connection.

