POWERTRONIC® PTi 50/220-240 B
Board version for luminaire integration
For metal halide lamps 50 W

Technical Information
Edition:Sep. 2012
Subject to change

Technical data

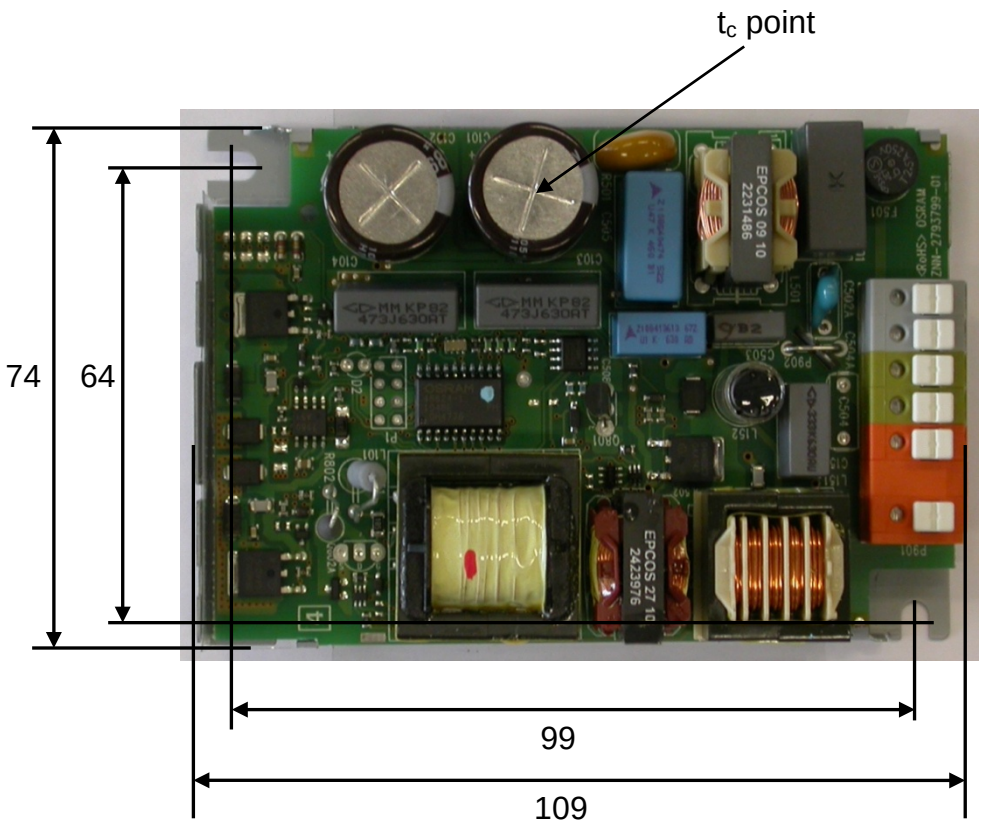
Reference:	**PTi 50/220-240 B**
Lamp:	HCI 50 W and other similar commercially available lamps
System wattage:	54.5 W ± 1.5 W
Lamp wattage:	50 W ± 1.5 W
Ballast efficiency:	~ 92 %
Line voltage:	220 – 240 V_{AC}
Voltage range:	198 – 264 V_{AC}
Line frequency:	50/60 Hz
Line current:	0.24 A_{eff} @ 230 V_{AC}
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 +65 °C
Max. temperature at t_c test point:	+90 °C
ECG life time:	40000 h @ t_c max. [1)] 50000 h @ t_c = 85 °C
Overheating protection:	Power reduction and shutdown at T at the t_c point > 90 ° 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):	109 mm x 74 mm x 28 mm
Distance mounting wholes (l1):	99 mm x 64 mm
Weight:	≈ 190 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 B	4008321 **794130**	4008321 **794147**

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Hints for the fixture manufacturers

The PCB version meets the requirements of the respective safety and EMI standards, which can be evaluated independently of the housing.

As the PCB version does not carry any housing, the luminaire manufacturer is responsible for compliance of the fixture design with the safety standards EN 60598-1 and EN 61347-2-12 with special focus on:
a) protection against electric shock
b) creepage distances and clearances
c) insulation resistance and electric strength
d) max. temperature at t_c – measuring point
e) fault conditions following EN 61347-2-12, clause 14

Attention!

For safety reasons disconnect the device before replacing the lamp!

Wiring diagram

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

