



HF-Regulator II for TL5 lamps

HF-R 414 TL5 EII 220-240V 50-60Hz

High-frequency electronic dimming ballast, using the analog protocol (1-10 V) for TL5 HE/HO and TL5 Eco lamps

Product data

• General Characteristics

| | |
|------------------------------|------------------|
| Interface | 1-10V |
| Application code | EII |
| Rated Lamptype | TL5 |
| Rated Number of Lamps | 4 piece |
| Rated Ballast-Lamp Power | 14 |
| Line Voltage | 220-240 V |
| Line Frequency | 50-60 Hz |
| Housing | L 359x39x22 |
| Energy Efficiency Index | A1 |
| Lifetime 90% surv.@Tcaselife | 50000 hr |
| Ignition Method | Programmed Start |

| | |
|--------------------------------|------------------------|
| Battery voltage running lamps | 154-276 |
| Overvoltage protection 320Vac | 48 hr |
| Overvoltage protection 350Vac | 2 hr |
| Control input protection | Yes (Basic insulation) |
| Max ballast on MCB(16A type B) | 28 x |
| Stable lamp operation temp. | - [Not specified] |
| Crestfactor | 1.7 (max) - |
| Hum and Noise level | Inaudible |
| Total Harmonic Distortion EUR | 7 % |

• Operating Characteristics

| | |
|--------------------------------|------------------------|
| Automatic restart | Yes |
| Ignition time | 0.2 (max) s |
| Operating frequency | 46 (min), 85 (max) kHz |
| Mains voltage safety (AC) | -10%/+10% |
| Mains voltage performance (AC) | -8%/+6% |
| Inrush current Peak | 27 (max) A |
| Inrush current Width | 0.25 ms |
| Earth leakage current | 0.5 (max) mA |
| Power losses gear | 9.9 W |
| Regulating level power | 1%-100% |
| PowerFactor 100% output power | 0.98 - |
| Battery voltage lamp ignition | 196 V |

• Wiring Characteristics

| | |
|--------------------------------|---|
| Conn.type input terminals | WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring] |
| Conn.type output terminals | WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring] |
| Conn.type ctrl input terminals | WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring] |
| Striplength | 8.0-9.0 mm |
| Dual fixture Master/Slave | - [not specified] |
| Wcs Control input terminals | 0.50-1.00 mm2 |
| Wcs Input terminals | 0.50-1.00 mm2 |
| Wcs Output terminals | 0.50-1.00 mm2 |

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Wcs auto insertion (ALF/ADS) 0.5 mm²

• Temperature Characteristics

T-ignition 0 (min), 50 (max) C
 T-ambient -20 (min), 50 (max) C
 T-storage -25 (min), 80 (max) C

• Product Dimensions

Length A1 359 mm
 Fixing Hole Distance 350 mm
 Length A2
 Width B1 39 mm
 Height C1 22 mm
 Fixing Hole Diameter 4.2 mm
 D1

• Approval & Application Chars

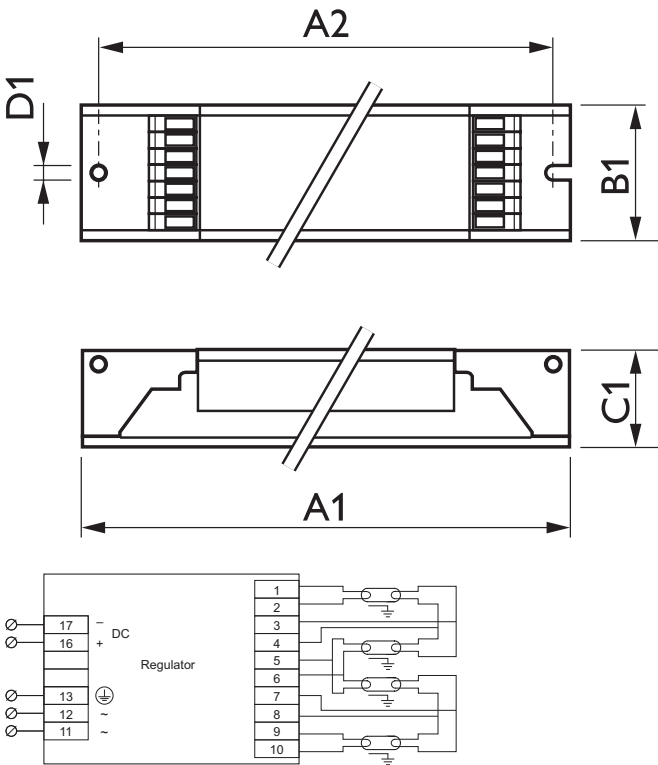
EMI 9kHz .. 30 MHz EN 55015
 EMI 30 MHz .. 1000MHz EN 55022 level B [Level = Class]
 Safety Standard IEC 61347-2-3
 Performance Standard IEC 60929
 Quality Standard ISO 9000:2000
 Environmental Standard ISO 14001

Harmonic current emissions IEC 61000-3-2
 EMC Immunity IEC 61547
 Vibrations IEC 68-2-6 Fc
 Bumps IEC 68-2-29 Eb
 Humidity EN 61347-2-3 clause 11
 Approval marks ENEC / VDE-EMV
 CE marking Yes
 Temperature marking 110 [Yes]
 Emergency standard IEC 60598-2-22

• Product Data

Order code 913700614466
 Full product code 913700614466
 Full product name HF-R 414 TL5 EII 220-240V 50/60Hz
 Order product name HF-R 414 TL5 EII 220-240V 50/60Hz
 Pieces per pack 1
 Packing configuration 10
 Packs per outerbox 10
 Bar code on pack - EAN1 8711500913647
 Bar code on outerbox - EAN3 8711500913654
 Logistic code(s) - 12NC 913700614466
 Net weight per piece 0.340 kg

Dimensional drawing



HF-R 414 TL5 EII 220-240V 50-60Hz

| Product | A1 (Norm) | A2 (Norm) | B1 (Norm) | C1 (Norm) | D1 (Norm) |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| HF-R 414 TL5 EII 220-240V 50-60Hz | 359 | 350 | 39 | 22 | 4.2 |



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2014, April 11
data subject to change