

## PRODUCT DATASHEET

### HTL 105/230...240

HALOTRONIC®-PROFESSIONAL HTL | Electronic transformers for low-voltage halogen lamps



#### Areas of application

- Effect and accent lighting
- Living rooms
- Object lighting
- Conference rooms
- Restaurants
- Recessed and surface-mounted furniture luminaires
- Shop lighting
- Event rooms

#### Product benefits

- Very low power loss thanks to high efficacy
- Through-wiring possible on the primary side
- Large temperature range
- Protective operation throughout the entire partial-load range for long lamp life
- High efficiency

#### Product features

- Line frequency: 50...60 Hz
- RI suppression: to EN 55015 (A1: 2007)/CISPR 15, EN 55022
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Safety: to EN 61347
- Short-circuit protection, overload protection, overtemperature protection: electronically reversible
- Electrical isolation between the primary side and the secondary side
- Dimmable on the leading edge and trailing edge

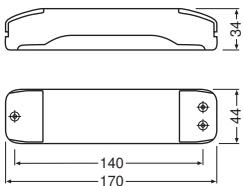
TECHNICAL DATA

Electrical data

|                                          |                               |
|------------------------------------------|-------------------------------|
| Nominal wattage                          | 108.00 W                      |
| Nominal voltage                          | 230...240 V                   |
| Nominal output voltage                   | 11.6 V / 11.3 V <sup>1)</sup> |
| Input voltage range                      | 230...240 V                   |
| Input voltage AC                         | 207...264 V                   |
| Input voltage DC                         | 176...275 V                   |
| Inrush current                           | 0.6 A <sup>2)</sup>           |
| Mains frequency                          | 50/60 Hz <sup>3)</sup>        |
| Power factor $\lambda$                   | 0.95 <sup>4)</sup>            |
| ECG efficiency                           | 95 % <sup>5)</sup>            |
| Device power loss                        | 6 W <sup>2)</sup>             |
| Max. ECG no. on circuit breaker 10 A (B) | 23                            |
| Max. ECG no. on circuit breaker 16 A (B) | 38                            |
| Operating frequency                      | 40 kHz                        |

- 1) 105 W / 35 W  
2) Maximum  
3) Approximately  
4) Minimum  
5) At full load

Dimensions & Weight



|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Length                              | 170.00 mm                         |
| Mounting hole spacing, length       | 140,0 mm                          |
| Width                               | 44.00 mm                          |
| Height                              | 34.00 mm                          |
| Cable cross-section, input side     | 2.5 mm <sup>2</sup> <sup>1)</sup> |
| Cable cross-section, output side    | 4 mm <sup>2</sup> <sup>1)</sup>   |
| Wire preparation length, input side | 14 mm / 8.0 mm <sup>2)</sup>      |

|                                      |                              |
|--------------------------------------|------------------------------|
| Wire preparation length, output side | 14 mm / 8.0 mm <sup>2)</sup> |
| Product weight                       | 160.00 g                     |

1) Maximum

2) Cable sheath / Wire

### Colors & materials

|                 |         |
|-----------------|---------|
| Product color   | Grey    |
| Casing material | Plastic |
| Body material   | Plastic |

### Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 80 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

1) Maximum 56 days/year at 85 %

### Additional product data

|              |    |
|--------------|----|
| Encapsulated | No |
|--------------|----|

### Capabilities

|                                        |                                  |
|----------------------------------------|----------------------------------|
| Dimmable                               | Yes                              |
| Dimming range                          | 0...100 %                        |
| Overheating protection                 | Automatic switch off, reversible |
| Overload protection                    | Automatic switch off, reversible |
| No-load proof                          | Yes                              |
| Short-circuit protection               | Automatic switch-off, reversible |
| Max. cable length to lamp/LED module   | 2,0 m                            |
| Suitable for fixtures with prot. class | II                               |
| Suitable for emergency lighting        | Yes                              |
| Type of connection, output side        | Screw terminal                   |

### Certificates & Standards

|                           |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| Approval marks – approval | ENEC 10 / VDE / VDE-EMC / EAC                                                                    |
| Standards                 | Acc. to EN 61347 / Acc. to EN 55015 / Acc. to EN 61000-3-2 / Acc. to EN 61547 / Acc. to EN 61047 |
| Protection class          | II                                                                                               |
| Type of protection        | IP20                                                                                             |

### LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -40...+85 °C |
|------------------------------|--------------|

## DOWNLOAD DATA

| Documents and certificates                                                         |                            | Document name                                                     |
|------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------|
|    | User Instruction           | 334136_Technical guide - HALOTRONIC for low-voltage halogen lamps |
|    | User Instruction           | 334738_HALOTRONIC – Manual                                        |
|    | User Instruction           | 590733_EAC - HTL / HTM / HTN                                      |
|    | Declarations of conformity | 710835_EC-DOC Halotronic                                          |
|    | Certificates               | 504178_EAC HT family                                              |
|    | Certificates               | 334969_ENEC-Marks approval                                        |
|   | Certificates               | HALOTRONIC EMC 134590 080720                                      |
|  | Certificates               | VDE EMC Certificate 40024187                                      |
|  | Certificates               | VDE ENEC Certificate 40024665                                     |
| CAD/BIM files                                                                      |                            | Document name                                                     |
|  | CAD data 3D PDF            | 317451_HTL 105/230-240 and HTL 225/230-240 9900052                |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4008321927019 | Unpacked<br>1                | 169 mm x 44 mm x 36 mm               | 160.00 g     | 0.27 dm <sup>3</sup> |
| 4008321927033 | Shipping box<br>10           | 235 mm x 89 mm x 183 mm              | 1711.00 g    | 3.83 dm <sup>3</sup> |

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.