

## PRODUCT DATASHEET

### HTM 70/230...240

HALOTRONIC-COMPACT – HTM, HTN | 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
- Strain relief suitable for different cable types (HTM)
- Suitable for space-critical installation thanks to compact functional design
- Extremely compact transformer for highly space-critical installation conditions (HTN)
- Protective operation throughout the entire partial-load range for long lamp life

#### 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
- Energy efficiency:  $\geq 91\%$  (according to ErP regulation 2012/1194/EC)
- Dimmable on the leading edge (without HTN) and trailing edge

**TECHNICAL DATA**

Electrical data

<b>Lamp wattage</b>	20...70 W
<b>Line current</b>	0.27 A <sup>1)</sup>
<b>Power factor λ</b>	0.99
<b>Operating frequency</b>	52 kHz <sup>2)</sup>
<b>Nominal output voltage</b>	11.2 / 11.2 V <sup>3)</sup>
<b>Nominal voltage</b>	230...240 V
<b>Input voltage AC</b>	207...264 V
<b>Mains frequency</b>	50...60 Hz
<b>System wattage [AGGR]</b>	74.00 W
<b>Max. ECG no. on circuit breaker 10 A (B)</b>	37
<b>Max. ECG no. on circuit breaker 16 A (B)</b>	59
<b>ECG efficiency</b>	95 % <sup>4)</sup>
<b>Galvanic isolation primary/secondary</b>	4.00 kV <sup>5)</sup>
<b>Inrush current</b>	0.3 A <sup>6)</sup>

<sup>1)</sup> Effectively

<sup>2)</sup> Approximately

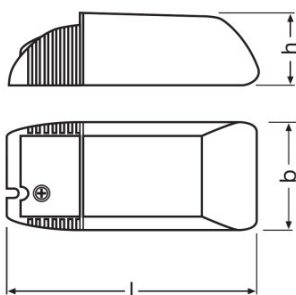
<sup>3)</sup> 70 W / 20 W

<sup>4)</sup> At full load

<sup>5)</sup> eff

<sup>6)</sup> Maximum

— **Dimensions & weight**



<b>Length</b>	108.0 mm
<b>Width</b>	52.0 mm
<b>Mounting hole spacing, length</b>	-
<b>Height</b>	33.0 mm
<b>Mounting hole spacing, width</b>	-
<b>Cable cross-section, input side</b>	2.5 mm <sup>2</sup>

<b>Cable cross-section, output side</b>	2.5 mm <sup>2</sup>
<b>Wire preparation length, input side</b>	12 / 7.0 mm <sup>1)</sup>
<b>Wire preparation length, output side</b>	12 / 7.0 mm <sup>1)</sup>
<b>Product weight</b>	110.00 g

<sup>1)</sup> Cable sheath / Wire

### Temperatures & operating conditions

<b>Ambient temperature range</b>	0...+50 °C
<b>Maximum temperature at tc test point</b>	80 °C

### Additional product data

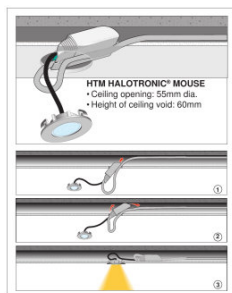
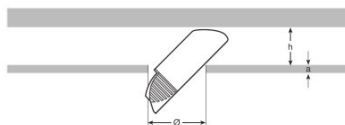
<b>Design / version</b>	Compact with cable clamp
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### Capabilities

<b>Dimming method</b>	Trailing- or leading-edge phase control for inductive load dimmers
<b>Overload protection</b>	Automatic reversible
<b>Overheating protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>Max. cable length to lamp/LED module</b>	2.0 m
<b>Cable/wire types, input side</b>	NYM 3x1.5 / H05VV-F 3x0.75 / H05VV-F 3x1.0 / H05VV-F 3x1.5 / H05VV-F 2x0.75 / H05VV-F 2x1.5 / H05VVH2-F 2x0.75 / H05VVH2-F 2x1.5 mm <sup>2</sup>
<b>Cable/wire types, output side</b>	NYM 3x1.5 / H05VV-F 3x0.75 / H05VV-F 3x1.5 / H05VV-F 3x1.5 / H05VV-F 2x0.75 / H05VV-F 2x1.5 / H05VVH2-F 2x0.75 mm <sup>2</sup>
<b>Dimmable</b>	Yes
<b>Dimming range</b>	0...100 %
<b>No-load proof</b>	Yes
<b>Suitable for fixtures with prot. class</b>	II

### Certificates & standards















<b>Approval marks – approval</b>	VDE / VDE-EMC / E1 approval / EAC
<b>Standards</b>	Acc. to EN 61347/Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61547/Acc. to EN 61047
<b>Type of protection</b>	IP20



Product line drawing assembling

Others graphics

**DOWNLOAD DATA**

File	
	Brochures 335576_HALOTRONIC MOUSE &#150; HTM
	Certificates 504178_EAC HT family
	Certificates 334962_EMC-Marks approval
	Certificates 335163_ENEC-Marks approval HTi 105 DIM
	Certificates 504182_ENEC-Certificate HTL_HTM_HTN_HTi
	Certificates 504186_VDE-EMC-Certificate HTM_HTN
	Declarations of conformity 710835_EC-DOC Halotronic
	Installation/Operation notice 334136_Technical guide - HALOTRONIC for low-voltage halogen lamps
	Installation/Operation notice 334738_HALOTRONIC &#150; Manual
	Operating instructions 590733_EAC - HTL HTM HTN
	CAD data 3-dim 313437_108x52x33 9900021
	CAD data 3-dim 313457_108x52x33 9900021
	CAD data 3-dim 313479_108x52x33 9900021
	CAD data PDF 313411_108x52x33 9900021

**LOGISTICAL DATA**

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4050300442310	HTM 70/230...240	Shipping carton box 20	270 mm x 94 mm x 229 mm	5.81 dm <sup>3</sup>	2436.00 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.

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#### DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.