

# ELECTRIC TRANSFORMER COMPATIBILITY MR16

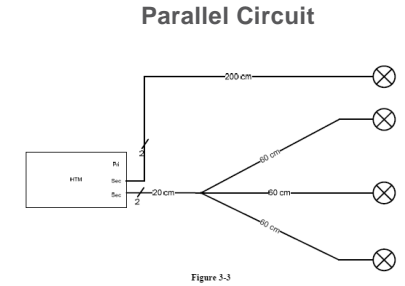
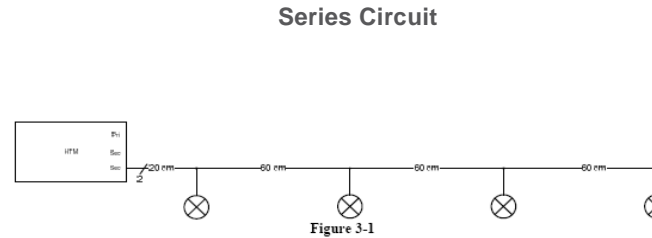
## BASIC INFORMATION:

### 1. WHAT IS THE PRODUCT CODE AND WHERE DO I FIND IT?

The product code describes the lamp type. It contains 7 letters and digits and is starting with "A". Below an example for the product code of the stamp of the lamp:



220-240V **AC01770** 2700K  
13 W 50/60 Hz 27 mA  
Made in Germany XXX-XXXX



### 2. HOW MANY LAMPS CAN I INSTALL ON ONE ELECTRIC TRANSFORMER?

For max. number of lamps on a Electric Transformer, please use the following rule of thumb:  
(Please note: actual number may vary from calculated result)

$$\text{Max. number of lamps} = \frac{\text{Max. load of Electric Transformer}}{\text{Equivalent Wattage (HAL/GLS)}}$$

### 3. HOW CAN I READ THE FOLLOWING CHARTS?

Legend:  
Information about the compatibility of the lamps. Green means very good compatibility, yellow means limited compatibility and red means undesired compatibility.

List of electric transformers tested in laboratory conditions.

Legend		PARATHOM PRO						
		AR111 50	AR111 75	AR111 100	AR111 GLOWdim	MR111 20	MR111 20 non-dim	MR111 35 non-dim
Very good compatibility with indicated number of lamps		[Green bar]						
Good compatibility with indicated number of lamps		[Yellow bar]						
Not tested		[Red bar]						
ELECTRIC TRANSFORMERS								
	Brand	Model	Type	Voltage	Wattage	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET
Series Circuit	OSRAM	HTM 70230-240	HT	230-240, 50-60Hz	20-70W	1-3	1-4	1-4
	OSRAM	HTM 109230-240	HT	230-240, 50-60Hz	35-105W	1-3	1-4	1-4
	OSRAM	ET-Parrot 70220-240I	ET	230-240, 50-60Hz	20-70W	1-3	1-4	1-4
	OSRAM	HTM 109230-240	HT	230-240, 50-60Hz	50-150W	1-4	1-4	1-4
	OSRAM	HTM 79230-240I	HT	230-240, 50-60Hz	20-75W	1-3	1-4	1-4
	OSRAM	ET-Parrot 109230-240I	ET	230-240, 50-60Hz	35-105W	1-3	1-4	1-4
	OSRAM	ET-Parrot 90	ET	230V/50Hz	50-150	1-4	1-4	1-4
	OSRAM	HTL 109230-240	HT	230-240, 50-60Hz	35-105W	1-4	1-4	1-4
	OSRAM	HTL 109230-240	HT	230-240, 50-60Hz	50-225W	1-4	1-4	1-4
	OSRAM	DT 30020-240P	DT	230V/50Hz	30	1-2	1-2	1-4
Parallel Circuit	OSRAM	DT 60020-240P	DT	230V/50Hz	60	1-4	1-3	1-3
	OSRAM	HTM 70230-240	HT	230-240, 50-60Hz	20-70W	1-3	1-4	1-4
	OSRAM	HTM 109230-240	HT	230-240, 50-60Hz	35-105W	1-3	1-4	1-4
	OSRAM	ET-Parrot 70220-240I	ET	230-240, 50-60Hz	20-70W	1-3	1-4	1-4
	OSRAM	HTM 109230-240	HT	230-240, 50-60Hz	50-150W	1-4	1-4	1-4
	OSRAM	HTM 79230-240I	HT	230-240, 50-60Hz	20-75W	1-3	1-4	1-4
	OSRAM	ET-Parrot 109230-240I	ET	230-240, 50-60Hz	35-105W	1-3	1-4	1-4
	OSRAM	ET-Parrot 90	ET	230V/50Hz	50-150	1-4	1-4	1-4
	OSRAM	HTL 109230-240	HT	230-240, 50-60Hz	35-105W	1-4	1-4	1-4
	OSRAM	HTL 109230-240	HT	230-240, 50-60Hz	50-225W	1-4	1-4	1-4

Information about the OSRAM lamp type

Assessment of the results into categories. Includes the number of lamps.

# TRANSFORMATOR KOMPATIBILITÄT MR16

## BASISINFORMATIONEN:

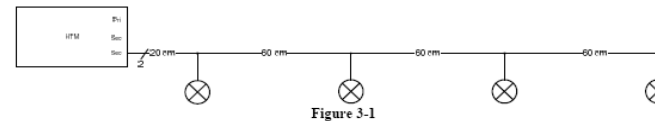
### 1. WAS IST DER PRODUKTCODE UND WO FINDE ICH IHN?

Der Produktcode beschreibt den Lampentyp. Er besteht aus sieben Buchstaben und Ziffern und beginnt mit einem "A". Nachfolgend ein Beispiel eines Produktcodes auf dem Aufdruck der Lampe.

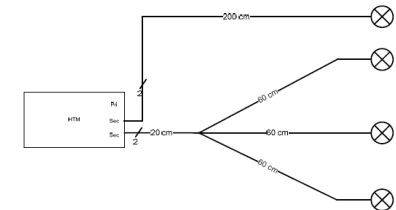


220-240V **AC01770** 2700K  
13 W 50/60 Hz 27 mA  
Made in Germany XXX-XXXX

Reihenschaltung



Parallelschaltung



### 2. WIE VIELE LAMPEN KANN ICH AN EINEN ELEKTRISCHEN TRANSFORMATOR ANSCHLIEßEN?

Die max. Anzahl an Lampen, die Sie an einen elektrischen Transformator anschließen können, ergibt sich aus der folgenden Faustregel:  
(Bitte beachten Sie: die tatsächliche Anzahl kann vom berechneten Ergebnis abweichen)

$$\text{Max. Anzahl von Lampen} = \frac{\text{Max. Last des elektrischen Transformators}}{\text{Äquivalente Wattage (HAL/GLS)}}$$

### 3. WIE LESE ICH DIE FOLGENDEN TABELLEN?

Legende: Angaben zur Kompatibilität der Lampen. Grün bedeutet eine sehr gute Eigenschaft mit der angegebenen Lampenanzahl, gelb eingeschränkte Eigenschaften und rot bedeutet eine teilweise kritische Kompatibilität.











Liste der getesteten Transformatoren

Legend					PARATHOM PRO						
					AR111 50	AR111 75	AR111 100	AR111 GLEWdim	PARATHOM DIM MR111 20	PARATHOM MR111 20 non-dim	PARATHOM MR111 35 non-dim
Very good compatibility with indicated number of lamps					[Green background]						
Good compatibility with indicated number of lamps					[Yellow background]						
Not tested					[Red background]						
ELECTRIC TRANSFORMERS					Number of Lamps on ET						
Brand	Model	Type	Voltage	Wattage	ET	ET	ET	ET	ET	ET	ET
					1-3	1-4	1-4	1-3	1-4	1-4	1-4
Series Circuit	OSRAM HTM 70230-240	HT	230-240, 50-60Hz	20-70W	1-3	1-4	1-4	1-3	1-4	1-4	1-4
	OSRAM HTM 105230-240	HT	230-240, 50-60Hz	35-105W	1-3	1-4	1-4	1-3	1-4	1-4	
	OSRAM ET-Parrot 70220-2401	ET	220-240, 50-60Hz	20-70W	1-3	1-4	1-4	1-3	1-4	1-4	
	OSRAM HTM 105230-240	HT	230-240, 50-60Hz	50-105W	1-4	1-4	1-4	1-3	1-4	1-4	
	OSRAM HTN 79230-2401	HT	230-240, 50-60Hz	20-75W	1-3	1-4	1-4	1-2	1-4	1-4	
	OSRAM ET-Parrot 105220-2401	ET	220-240, 50-60Hz	35-105W	1-3	1-4	1-4	1-2	1-4	1-2	
	OSRAM ET-Parrot 80	ET	230V/50Hz	50-75W	1-4	1-4	1-4	1-4	1-4	1-4	
	OSRAM HTL 105230-240	HT	230-240, 50-60Hz	35-105W	1-4	1-4	1-4	1-3	2-4	1-4	
	OSRAM HTL 229230-240	HT	230-240, 50-60Hz	50-225W	1-4	1-4	1-4	1-4	3-4	1-4	
	OSRAM OT 30220-2401P	OT	230V/50Hz	30	1-2	1-2	1-2	1-2	1-4	1-4	
OSRAM OT 60220-2401P	OT	230V/50Hz	60	1-4	1-3	1-3	1-3	1-4	1-4		
Parallel Circuit	OSRAM HTM 70230-240	HT	230-240, 50-60Hz	20-70W	1-3	1-4	1-4	1-3	1-4	1-4	
	OSRAM HTM 105230-240	HT	230-240, 50-60Hz	35-105W	1-3	1-4	1-4	1-3	1-4	1-4	
	OSRAM ET-Parrot 70220-2401	ET	220-240, 50-60Hz	20-70W	1-3	1-4	1-4	1-3	1-4	1-4	
	OSRAM HTM 105230-240	HT	230-240, 50-60Hz	50-105W	1-4	1-4	1-4	1-3	1-4	1-4	
	OSRAM HTN 79230-2401	HT	230-240, 50-60Hz	20-75W	1-3	1-4	1-4	1-2	1-4	1-4	
	OSRAM ET-Parrot 105220-2401	ET	220-240, 50-60Hz	35-105W	1-3	1-4	1-4	1-2	1-4	1-2	
	OSRAM ET-Parrot 80	ET	230V/50Hz	50-75W	1-4	1-4	1-4	1-4	1-4	1-4	
	OSRAM HTL 105230-240	HT	230-240, 50-60Hz	35-105W	1-4	1-4	1-4	1-3	1-4	1-4	
	OSRAM HTL 229230-240	HT	230-240, 50-60Hz	50-225W	1-4	1-4	1-4	1-4	1-4	1-4	
	OSRAM OT 30220-2401P	OT	230V/50Hz	30	1-2	1-2	1-2	1-2	1-4	1-4	
OSRAM OT 60220-2401P	OT	230V/50Hz	60	1-4	1-3	1-3	1-3	1-4	1-4		











Angaben zum OSRAM Lampentyp

Bewertung der Testergebnisse in Ampel Kategorien. Beinhaltet die Lampenanzahl für die angegebene Ampel Kategorie.

## ELECTRIC TRANSFORMER COMPATIBILITY MR16

Legend					SUPERSTAR MR16 20 36°	SUPERSTAR MR16 35 36°	SUPERSTAR MR16 50 36°	STAR MR16 20 36° NON DIM	STAR MR16 35 36° NON DIM	STAR MR16 50 36° NON DIM
	Very good compatibility with indicated number of lamps									
	Good compatibility with indicated number of lamps				EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code
	Undesired compatibility									
	Not tested									
					4052899390034 / AC07570 4052899390058 / AC07572	4052899390072 / AC07573 4058075112643 / AC07573 4052899390096 / AC07575	4052899389991 / AC07576 4052899390119 / AC07578	4058075112667 / AC07579 4052899957718 / AC07579 4052899957725 / AC07581	4052899957756 / AC07582 4058075112681 / AC07582 4052899388215 / AC07582 4058075260276 / AC07582 4052899957763 / AC07584 4058075112704 / AC07584	4052899957794 / AC07585 4052899957800 / AC07587
Electric Transformers					Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET
Brand	Model	Type	Voltage	Wattage						
OSRAM	HTM 70/230-240	ET	230-240, 50-60Hz	20-70W	1-8	1-7	1-5	1-8	1-5	1-4
OSRAM	HTM 105/230-240	ET	230-240, 50-60Hz	35-105W	1-12	1-10	1-7	1-10	1-6	1-5
OSRAM	ET-Parrot 70/220-240 I	ET APAC	220-240, 50-60Hz	20-70W	1-8	1-7	1-5	1-7	1-5	1-4
OSRAM	ET-Parrot 105/220-240 I	ET APAC	220-240, 50-60Hz	35-105W	1-12	1-10	1-7	1-6	1-6	1-5
OSRAM	ET-A 60/220-240	ET APAC	220-240, 50-60Hz	20-60W	1-7	1-6	1-4	1-7	1-5	1-4
OSRAM	ET-L 30/220-240	ET APAC	220-240, 50-60Hz	2-30W	1-3	1-3	1-2	1-4	1-4	1-3
OSRAM	ET-REDBBACK 40VA/230-20	ET APAC	230-240, 50-60Hz	10-40W	1-5	1-4	1-3	1-6	1-5	1-4
OSRAM	ET-Redback 60/230-240	ET APAC	230-240, 50Hz	20-60W	1-7	1-6	1-4	1-5	1-5	1-4
OSRAM	ET-P 60/220-240 (Gen 2)	ET APAC	220-240, 50-60Hz	20-60W	1-7	1-6	1-4	1-8	1-6	1-4
OSRAM	HTB 70/220-240	ET	220-240, 50-60Hz	20-70W	1-8	1-7	1-5	1-9	1-4	1-4
OSRAM	HALOTRNIC HTN75/230-240 I	ET	230-240, 50-60Hz	20-75W	1-9	1-7	1-5	1-2	1-5	1-2 & 4
OSRAM	HTM 150/230-240	ET	230-240, 50-60Hz	50-150W	2-7	2-4	1-7	2-8	2-9	1-5
OSRAM	HTL105/230-240	ET	230-240, 50-60Hz	35-105W			1-7			
OSRAM	IZ-A50/240	ET India	240,50-60Hz	50W	1-6	1-5	1-3	1-7	1-6	1-4
OSRAM	IZ-HALD50/220-240	ET APAC	220-240, 50-60Hz	20-50W	1-6	1-5	1-3	1-2 & 4-7	1-7	1-4
OSRAM	HTB 105/220-240	ET	220-240, 50-60Hz	35-105W	1-12	1-10	1-7	1-9	1-6	1-5
OSRAM	ET-Parrot 150/220-240 I	ET	220-240, 50-60Hz	50-150W	2-7	2-7	1-7	2-3	1-6	1-5
OSRAM	ET-ZE 60/220-240	ET	220-240, 50-60Hz	20-60W	1-7	1-6	1-4	1-8	1-5	2-4
OSRAM	HTL225	ET	220-240,50-60Hz	50-225W	3-7	2 & 5-7	2-3	Apr 13	3-9	1-5
OSRAM	OT30	OT	220-240,50-60Hz	30W	1-3	1-3	1-2	1-4	1-4	1-2
SLV	461060	ET	230,50-60Hz	10-60W	1-7	1-5	1-3	1-7	1-4	1-4

## ELECTRIC TRANSFORMER COMPATIBILITY MR16

Legend					SUPERSTAR MR16 20 36°	SUPERSTAR MR16 35 36°	SUPERSTAR MR16 50 36°	STAR MR16 20 36° NON DIM	STAR MR16 35 36° NON DIM	STAR MR16 50 36° NON DIM
	Very good compatibility with indicated number of lamps									
	Good compatibility with indicated number of lamps				EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code
	Undesired compatibility									
	Not tested									
					4052899390034 / AC07570 4052899390058 / AC07572	4052899390072 / AC07573 4058075112643 / AC07573 4052899390096 / AC07575	4052899389991 / AC07576 4052899390119 / AC07578	4058075112667 / AC07579 4052899957718 / AC07579 4052899957725 / AC07581	4052899957756 / AC07582 4058075112681 / AC07582 4052899388215 / AC07582 4058075260276 / AC07582 4052899957763 / AC07584 4058075112704 / AC07584	4052899957794 / AC07585 4052899957800 / AC07587
Electric Transformers					Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET
Brand	Model	Type	Voltage	Wattage						
BLOCK	HES 70K	ET	230-240,50-60Hz	20-70W	1-8	1-7	1-5	1-8	1-4	1-4
BLOCK	HES 105K	ET	230-240,50-60Hz	35-105W	2-12	1-10	1-7	3-4 & 8-13	1-8	1-5
EVN	TAB 70 (3310)	ET	230,50-60Hz	20-70W	2	1	1-5	1-4	1-4	1-3
EVN	MINIJOKER 70(T27/10)	ET		70W	1-8	1-7	1-5		1-4	
EVN	CLOU 60(T41/09)	ET	230-240,50-60Hz	10-60W	1-7	1-6	1-4		1	
Berker	Igel 20-105w 2921	ET	230-240,50-60Hz	20-105W	2-12	2-10	1-7	2-13	2-6	1-5
Berker	SNT 70/QU 2918	ET	230,50-60Hz	20-70W	2-8		1-3	2-10	2-8	1-4
OSRAM	OT15	OT	220-240,50-60Hz	15W	1-2	1-2	1	1-4	1-2	1
Berker	SNTF II 35-105W 2927	ET	230,50-60Hz	35-105W	2-12	6-10	3-7	4-13	3-9	2-5
OSRAM	OT60	OT	220-240,50-60Hz	60W	1-7	1-6	1-4	1-8	1-7	1-4
Paulmann	Disc electronic S 70	ET	230,50-60Hz	20-70W				2-7	1-7	1-4
Paulmann	Profi 80	ET	220-240,50Hz	20-80W	1-9	1-8	1-5		3-7	2-5
Paulmann	Mipro 70	ET	230,50-60Hz	20-70W	1-8	2-6	1-5		3-8	1-4
JUNG	SNT 70 F	ET	230,50-60Hz	20-70W	1-8	1-7	1-5	1 & 3-10	1-9	1-4
JUNG	SNT 105 F	ET	230,50-60Hz	20-105W	1-12	1-10	1-7	3-10	2-6	1-5
nobile	EN-80F	ET	230,50-60Hz	20-80W	1-9	2-8	1-5	1-11	1-8	1-5
nobile	EN-60D2	ET	230,50-60Hz	20-60W	1-7	1-6	1-4	1-9	1-6	1-4
FN LIGHT	TL105S 20-105W 461107	ET	230-240,50-60Hz	20-105W				1-11	1-6	1-5
goodbay	SET110LV(35-110W)	ET	220-240,50Hz	35-110W			1-7	2-4 & 7-13	1-7	1-5
PHILIPS	Primaline 70 230-240	ET	230-240,50-60Hz	20-70W	2-8	3-6	1-5	4	3-8	4
abi	SET210(50-210VA) AL50476	ET	220-240V, 50Hz	50-210VA	1-7	1-7	1-7	2-13	1-9	1-5

**Please Note:**

- The compatibility list is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to a number of factors. OSRAM does not take over any responsibility, warranty or liability that this results can also achieved by using the devices under other conditions, or when using successor models of the tested devices, or different models of the same manufacturer, or when using other LED lamp types
- The absence of a dimmer from this chart does not necessarily imply incompatibility.
- Please reference the dimmer manufacturer's instructions for installation.
- LED lamps contain several electronic components. Under unfavourable conditions these can lead to acoustic noise. In case of resonance even low noise can cause audible effect. Possible factors influencing this are the installation, the design of the lamp holder and the luminaire (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).
- Subject to change without notice
- Errors and omission excepted
- Always make sure to use the most recent release

**Bitte beachten:**

- Die Kompatibilitätsliste basiert auf Tests, die der Hersteller in einer im Labor simulierten Umgebung durchgeführt hat. Die Ergebnisse können aufgrund verschiedener Faktoren in manchen Praxisanwendungen abweichen. OSRAM übernimmt keinerlei Verantwortung, Garantie oder Haftung dafür, dass diese Ergebnisse tatsächlich mit den Geräten unter anderen Bedingungen, mit Nachfolgemodellen der getesteten Geräte, mit anderen Modellen desselben Herstellers oder bei Verwendung anderer LED-Lampentypen erreicht werden.
- Das Fehlen eines Dimmers in der Abbildung bedeutet nicht, dass ein Dimmer nicht kompatibel ist.
- Lesen Sie stets die Installationsanweisungen des Dimmerherstellers.
- LED-Lampen bestehen aus mehreren elektronischen Komponenten. Unter ungünstigen Bedingungen können diese Störgeräusche erzeugen. Im Resonanzfall können selbst geringe Geräusche einen hörbaren Effekt hervorrufen. Einflussfaktoren können die Installation, die Gestaltung des Lampenträgers, die Leuchte (akustischer Resonanzeffekt), der Dimmer oder der Trafo (Oberschwingungen oder elektronische Resonanz) sein.
- Änderungen vorbehalten.
- Irrtümer und Auslassungen vorbehalten.
- Vergewissern Sie sich, dass Sie stets die aktuellste Version benutzen.

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