

TRANSFORMER COMPATIBILITY MR16

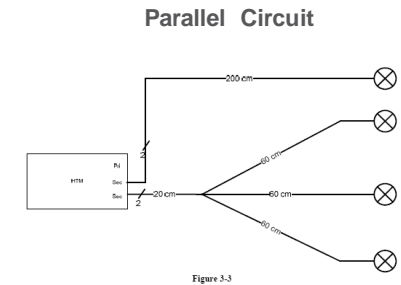
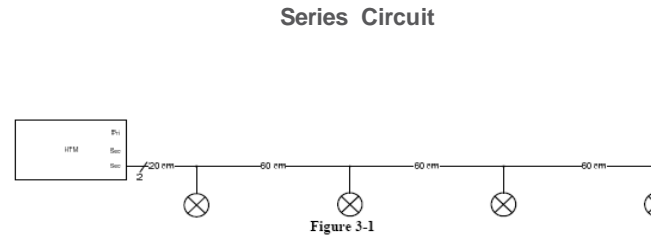
BASIC INFORMATION:

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 TRANSFORMER?

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

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

3. HOW CAN I READ THE FOLLOWING CHARTS?

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

List of transformers tested in laboratory conditions.

Legend		PARATHOM PRO AR111 50*	PARATHOM PRO AR111 75*	PARATHOM PRO AR111 100*	PARATHOM PRO AR111 GLOWdim	PARATHOM DIM MR11 20	PARATHOM MR11 20 non-dim
Good compatibility with indicated number of lamps							
Limited compatibility with indicated number of lamps							
Undesired compatibility							
Not tested							
EAN/Basic Code		405807544889 / AC24548	405807544889 / AC24553	405807544892 / AC24554	405807544896 / AC24547	405807529325 / AC17359	405807505157 / AC08768
EAN/Basic Code		405807544883 / AC24549	405807544890 / AC24555	405807544892 / AC24556	405807544890 / AC24550		405807505156 / AC08769
EAN/Basic Code		405807544846 / AC24552	405807544841 / AC24551				
EAN/Basic Code		405807544862 / AC24551					
EAN/Basic Code							
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	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET
OSRAM	HTM 70/220-240	HT	220-240, 50-60Hz	20-70W	1-4	1-2	1-4
OSRAM	HTM 105/230-240	HT	220-240, 50-60Hz	35-105W	1-4	1-2	1-4
OSRAM	ET-Parrot 70/220-240 I	ET	220-240, 50-60Hz	20-70W	1-4	1-2	1-4
OSRAM	ET-Parrot 105/220-240 I	ET	220-240, 50-60Hz	35-105W	1-4	1-2	1-4
OSRAM	ET-L40/220-240	ET	220-240, 50-60Hz	20-60W	1-4	1-2	1-4
OSRAM	ET-L30/220-240	ET	220-240, 50-60Hz	2-30W	1-4	1-2	1-4
OSRAM	HTB 70/220-240	HT	220-240, 50-60Hz	20-70W	1-4	1-2	1-4
OSRAM	HTM75/230-240 I	ET	220-240, 50-60Hz	20-75W	1-4	1-2	1-4
OSRAM	HTM 150/230-240	HT	220-240, 50-60Hz	50-150W	2-4	1-2	2-4
OSRAM	HTL105/230-240	HT	220-240, 50-60Hz	35-105W	3-4	1-2	3-4
OSRAM	ET-40/240	ET	240, 50-60Hz	50W	1-4	1	1-4
OSRAM	ET-HALO250/220-240	ET	220-240, 50-60Hz	20-50W	1-4	1-3	1-4
OSRAM	HTB 105/220-240	HT	220-240, 50-60Hz	35-105W	1-4	1-2	1-4
OSRAM	ET-Parrot 150/220-240 I	ET	220-240, 50-60Hz	50-150W	1-4	1-2	1-4
OSRAM	ET-L40/220-240	ET	220-240, 50-60Hz	20-60W	1-4	1-2	1-4
OSRAM	HTL 225/230-240	HT	220-240, 50-60Hz	50-225W	3-4	1-2	3-4
OSRAM	OT 15/220-240/12 P	OT	220-240, 50-60Hz	15W	1-2	3	1-2
OSRAM	OT 30/220-240/12 P	OT	220-240, 50-60Hz	30W	1-2	1-2	1-2
OSRAM	OT 30/220-240/24 P	OT	220-240, 50-60Hz	30W	1-2	1	1-2

Information about the lamp type.

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

TRANSFORMATOR KOMPATIBILITÄT MR16

BASISINFORMATIONEN:

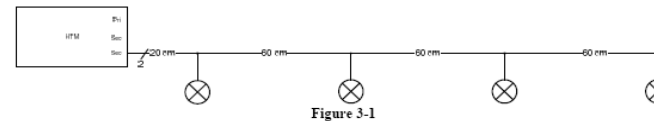
1. WAS IST DER PRODUKTCODE UND WO FINDE ICH IHN?

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.

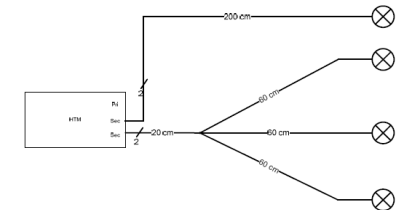


220-240V **AC01770** 2700K
13 W 50/60 Hz 27 mA
Made in Germany XXX-XXXX

Reihenschaltung



Parallelschaltung



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

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

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

3. WIE LESE ICH DIE FOLGENDEN TABELLEN?

Legende: Angaben zur Kompatibilität der Lampen. Grün bedeutet eine 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*	PARATHOM PRO AR111 75*	PARATHOM PRO AR111 100*	PARATHOM PRO AR111 GLOWdim	PARATHOM DIM MR11 20	PARATHOM MR11 20 non-dim
Good compatibility with indicated number of lamps										
Limited compatibility with indicated number of lamps										
Undesired compatibility										
Not tested										
Transformators					EAN/Basic Code	EAN/Basic Code	EAN/Basic Code	EAN/Basic Code	EAN/Basic Code	EAN/Basic Code
Brand	Model	Type	Voltage	Wattage	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
OSRAM	HTM 70/230-240	HT	230-240, 50-60Hz	20-70W	1-4	1-2	1-2	1-4	1-4	1-4
OSRAM	HTM 105/230-240	HT	230-240, 50-60Hz	35-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-Parrot 70/220-240 I	ET	220-240, 50-60Hz	20-70W	1-4	1-2	1-2	1-4	1-4	1-4
OSRAM	ET-Parrot 105/220-240 I	ET	220-240, 50-60Hz	35-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-L 60/220-240	ET	220-240, 50-60Hz	20-60W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-L 30/220-240	ET	220-240, 50-60Hz	2-30W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTB 70/220-240	HT	220-240, 50-60Hz	20-70W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTM75/230-240 I	ET	230-240, 50-60Hz	20-75W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTM 150/230-240	HT	230-240, 50-60Hz	50-150W	2-4	1-2	1-2	2-4	2-4	2-4
OSRAM	HTL105/230-240	HT	230-240, 50-60Hz	35-105W	3-4	1-3	1-2	3-4	3-4	3-4
OSRAM	IP-ASO/240	ET	240, 50-60Hz	50W	1-4	1	1-2	1-4	1-4	1-4
OSRAM	IP-MAX/150/220-240	ET	220-240, 50-60Hz	20-50W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTB 105/220-240	HT	220-240, 50-60Hz	35-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-Parrot 150/220-240 I	ET	220-240, 50-60Hz	50-150W	1-4	1-3	1-2	1-4	2-4	1-4
OSRAM	ET-L 60/220-240	ET	220-240, 50-60Hz	20-60W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTL 225/230-240	HT	220-240, 50-60Hz	50-225W	3-4	1-2	1-2	3-4	3-4	3-4
OSRAM	OT 15/220-240/12 P	OT	220-240, 50-60Hz	15W	1-2	1	1-2	1-2	1-2	1-3
OSRAM	OT 30/220-240/12 P	OT	220-240, 50-60Hz	30W	1-2	1	1-2	1-2	1-4	1-4
OSRAM	OT 30/220-240/24 P	OT	220-240, 50-60Hz	30W	1-2	1	1-2	1-2	1-2	1-2











Angaben zum Lampentyp

Bewertung der Testergebnisse im Ampelsystem. Beinhaltet die Lampenanzahl für die angegebene Ampel-Kategorie.

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
	Good compatibility with indicated number of lamps									
	Limited 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									
					4058075431799 / AC23622 4058075431591 / AC23622	4058075112643 / AC23625 4058075431515 / AC23625 4058075431836 / AC23627 4058075431454 / AC23627	4058075433724 / AC24591 4058075433649 / AC24591 4058075433748 / AC24593 4058075433625 / AC24593	4058075431393 / AC23628 4058075431416 / AC23628 4058075431850 / AC23630 4058075431331 / AC23630	4058075431270 / AC23631 4058075431294 / AC23631 4052899388215 / AC23631 4058075260276 / AC23631 4058075431171 / AC23633 4058075431195 / AC23633	4058075433762 / AC24594 4058075433601 / AC24594 4058075433786 / AC24596 4058075433588 / AC24596
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	1-6	1-6	1-4	1-6	1-2 & 4-6	1-4
OSRAM	HTM 105/230-240	ET	230-240, 50-60Hz	35-105W	2-6	2-6	1-4	1-6	1-6	1-4
OSRAM	ET-Parrot 70/220-240 I	ET APAC	220-240, 50-60Hz	20-70W			1-4			1-4
OSRAM	ET-A 60/220-240	ET APAC	220-240, 50-60Hz	20-60W			1-4			1-4
OSRAM	ET-L 30/220-240	ET APAC	220-240, 50-60Hz	2-30W			1-3			1-3
OSRAM	HTB 70/220-240	ET	220-240, 50-60Hz	20-70W	1-6	1-6	1-4	1-6	1-6	1-4
OSRAM	HALOTRNIC HTN75/230-240 I	ET	230-240, 50-60Hz	20-75W	1-6	1-6	1-4	1-6	5	1-4
OSRAM	HTM 150/230-240	ET	230-240, 50-60Hz	50-150W	4-6	2-6	2-4	1-6	1-6	2-4
OSRAM	HTL105/230-240	ET	230-240, 50-60Hz	35-105W	5-6	2-6	3-4	1-6	1-6	3-4
OSRAM	IZ-A50/240	ET India	240,50-60Hz	50W			1-4			1-4
OSRAM	IZ-HALD50/220-240	ET APAC	220-240, 50-60Hz	20-50W			1-4			1-4
OSRAM	HTB 105/220-240	ET	220-240, 50-60Hz	35-105W	1-6	1-6	1-4	1-3	1-6	1-4
OSRAM	ET-Parrot 150/220-240 I	ET	220-240, 50-60Hz	50-150W	2-6	2-6	2-4	1-6	1-6	2-4
OSRAM	ET-ZE 60/220-240	ET	220-240, 50-60Hz	20-60W	1-6	1-6	1-4	1-6	1-6	1-4
OSRAM	HTL225	ET	220-240,50-60Hz	50-225W	5-6	4-6	3-4	3-6	1-6	3-4
OSRAM	OT 15/220-240/12 P	OT	220-240,50-60Hz	15W	1-2	1-2	1-2	1-6	1-5	1-2
OSRAM	OT 30/220-240/12 P	OT	220-240,50-60Hz	30W	1-4	1-4	1-3	1-6	1-6	1-3
OSRAM	OT 60/220-240/ 12 P	OT	220-240,50-60Hz	60W	1-6	1-6	1-4	1-6	1-6	1-4
SLV	461060	ET	230,50-60Hz	10-60W	1-6	1-6	1-4	1-6	1-6	1-4

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
	Good compatibility with indicated number of lamps									
	Limited 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									
					4058075431799 / AC23622 4058075431591 / AC23622	405807512643 / AC23625 4058075431515 / AC23625 4058075431836 / AC23627 4058075431454 / AC23627	4058075433724 / AC24591 4058075433649 / AC24591 4058075433748 / AC24593 4058075433625 / AC24593	4058075431393 / AC23628 4058075431416 / AC23628 4058075431850 / AC23630 4058075431331 / AC23630	4058075431270 / AC23631 4058075431294 / AC23631 4052899388215 / AC23631 4058075260276 / AC23631 4058075431171 / AC23633 4058075431195 / AC23633	4058075433762 / AC24594 4058075433601 / AC24594 4058075433786 / AC24596 4058075433588 / AC24596
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	1-6	1-6		1-6	1-6	
BLOCK	HES 105K	ET	230-240,50-60Hz	35-105W	2-6	1-6	1-4	1-6	6	1-4
EVN	TAB 70 (3310)	ET	230,50-60Hz	20-70W	2-6	1-6	1-4	1-6	1-6	1-4
EVN	MINJOKER 70(T27/10)	ET	230-240,50-60Hz	10-60W	1-6	1-6	2-4	1-6	1-6	2-4
EVN	CLOU 60(T41/09)	ET	230-240,50-60Hz	10-70W	1-6	1-6	1-4	1-6	1-6	1-4
Berker	Igel 20-105w 2921	ET	230-240,50-60Hz	20-105W	3-6	1-6	1-4	1-6	4-6	1-4
Berker	SNT 70/QU 2918	ET	230,50-60Hz	20-70W	5-6	2-6	1-4	2-6	2-6	1-4
Berker	SNTF II 35-105W 2927	ET	230,50-60Hz	35-105W	4-6	3-6	2-4	5-6	2-6	2-4
TCI	SHARK60	EU	220-240,50-60Hz	10-60W	1-6	2-6		1	1-6	
TCI	PUMA 105	EU	230-240,50-60Hz	20-105W	2-6	1-6		2	1-6	
TCI	ROUND 70	EU	230,50-60Hz	20-70W	2-6	1-6		1-6	1-6	
TCI	MW70 LED	ET	220-240,50-60Hz	10-60W			1-4			1-4
Paulmann	Disc electronic S 70	ET	230,50-60Hz	20-70W	5-6	2-6		1-6	1-6	
Paulmann	Profi 80	ET	220-240,50Hz	20-80W	4-6	2-6	2-4	1-6	2-6	2-4
Paulmann	Mipro 70	ET	230,50-60Hz	20-70W	3-6	2-6	2-4	5-6	3-6	2-4
JUNG	SNT 70 F	ET	230,50-60Hz	20-70W	2-6	2-6	1-4	1-6	1-6	1-4
JUNG	SNT 105 F	ET	230,50-60Hz	20-105W	4-6	2-6	1-4	1-6	1-6	1-4
nobile	EN-80F	ET	230,50-60Hz	20-80W	3-6	1-6	3-4	1-6	1-6	3-4
nobile	EN-60D2	ET	230,50-60Hz	20-60W	2-6	2-6	3-4	1-6	1-6	3-4
FN LIGHT	TL105S 20-105W 461107	ET	230-240,50-60Hz	20-105W	1-6	1-6	1-4	1-6	1-6	1-4
goodbay	SET110LV(35-110W)	ET	220-240,50Hz	35-110W	3-6	2-6	1-4	2-3	2-6	1-4
PHILIPS	Primaline 70 230-240	ET	230-240,50-60Hz	20-70W	3-6	2-6	3-4	1-3 & 5-6	1-4	3-4
abi	SET210(50-210VA) AL50476	ET	220-240V, 50Hz	50-210VA	3-6	1-6	1-4	1-6	1-6	1-4

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. LEDVANCE 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.
- The operation of non-dimmable LED lamps on dimming devices is not permitted.
- 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 (harmonic 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. LEDVANCE 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.
- Der Betrieb von nicht dimmbaren LED-Lampen an Dimmgeräten ist nicht zulässig.
- 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.

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