

	ELD61¹⁾ KLD61¹⁾	EUD12NPN¹⁾ EUD12D¹⁾ EUD12DK¹⁾ LUD12¹⁾ MFZ12PMD¹⁾	EUD61NPN¹⁾ EUD61M¹⁾ EUD61NP¹⁾ EUD61NPL¹⁾	EUD12F¹⁾	SDS12 SUD12	SDS61	MOD12D	DTD65¹⁾ DTD65F¹⁾ DTD65L¹⁾ DTD65FL¹⁾ DTD55¹⁾ DTD55L¹⁾
Contacts								
Spacing of control connections/load	6mm	6mm	6mm EUD61NP: 3mm	6mm	6mm	3mm	6mm	3mm
Incandescent and halogen lamps 230V (R)	–	up to 400W EUD12DK: up to 800W	up to 400W EUD61NPL: 200W	up to 300W	–	–	–	up to 300W DTD65L/FL and DTD55L: up to 200W
Inductive transformers (L) ²⁾³⁾	–	up to 400W EUD12DK: up to 800W	up to 400W (not EUD61NPL)	up to 300W	–	–	–	up to 300W DTD65L/FL and DTD55L –
Motor (L)	–	–	–	–	–	–	up to 300W ⁷⁾	–
Capacitive transformers (C) ³⁾⁸⁾	–	up to 400W EUD12DK: up to 800W	up to 400W EUD61NPL: 200W	up to 300W	–	–	–	up to 300W DTD65L/FL and DTD55L: up to 200W
Dimmable energy saving lamps ESL ⁵⁾⁶⁾⁹⁾	–	up to 400W EUD12DK: up to 800W	up to 400W EUD61NPL: 200W (not EUD61NP)	up to 300W	–	–	–	up to 300W DTD65L/FL and DTD55L: up to 200W
Dimmable 230V LED lamps ⁵⁾⁶⁾⁹⁾	–	up to 400W EUD12DK: up to 800W	up to 400W EUD61NPL: 200W (not EUD61NP)	–	–	–	–	up to 300W DTD65L/FL and DTD55L: up to 200W
Dimmable LED lamps 12-36V DC	ELD61: 4A KLD61: 30W	–	–	–	–	–	–	–
1-10V EVG*	–	–	–	–	40mA 600VA	40mA 600VA	–	–
Maximum conductor cross-section (3-fold terminal)	4mm ²	6mm ² (4mm ²)	4mm ²	6mm ² (4mm ²)	6mm ² (4mm ²)	4mm ²	6mm ² (4mm ²)	4mm ²
Two conductors of same cross-section (3-fold terminal)	1.5mm ²	2.5mm ² (1.5mm ²)	1.5mm ²	2.5mm ² (1.5mm ²)	2.5mm ² (1.5mm ²)	1.5mm ²	2.5mm ² (1.5mm ²)	1.5mm ²
Screw head	slotted/cross-head, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead	slotted/cross-head, pozidriv	slotted/cross-head, pozidriv	slotted/cross-head, pozidriv	slotted/cross-head, pozidriv	slotted/cross-head, pozidriv
Type of enclosure/terminals	IP30/IP20	IP50/IP20	IP30/IP20	IP50/IP20	IP50/IP20	IP30/IP20	IP50/IP20	IP50/IP20
Time on	100%	100%	100%	100%	100%	100%	100%	100%
Max./min. temperature at mounting location ⁴⁾	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C
Standby loss (active power)	0.1W	0.1W EUD12DK: 0.2W EUD12D and MFZ12PMD: 0.3W	0.1W EUD61NP: 0.5W	0.1W	1W SUD12: 0.9W	1W	0.3W	0.14W DTD65L/FL and DTD55L: 0.5W
Control voltage	8..230V UC	8..230V UC	8..230V UC EUD61NPN-230V and EUD61NP: 230V	internal DC voltage	8..230V UC	230V	8..230V UC	230V
Control current 230V-control input (<5s)	–	–	EUD61NP: 0.7mA EUD61NPN-230V: 4 (100)mA	–	–	0.5mA	–	0.4mA
Control current universal control voltage all control voltages (<5s) 8/12/24/230V (<5s)	– 2/3/7/4(100)mA	10(100)mA –	– 2/3/7/4(100)mA	–	– 3/5/10/4(100) mA	–	2/3/8/5(100) mA –	– –
Control current central 8/12/24/230V (<5s)	–	3/5/10/4(100)mA	–	–	3/5/10/4(100)mA	–	2/3/8/5(100)mA	–
Max. parallel capacitance (approx. length) of single control lead at 230V AC	0.3µF (1000m)	0.9µF (3000m)	0.9µF (3000m) EUD61NP: 0.3µF (1000m)	–	0.3µF (1000m)	0.06µF (200m)	0.9µF (3000m)	0.3µF (1000m)
Max. parallel capacitance (approx. length) of central control lead at 230V AC	–	0.9µF (3000m)	–	–	0.3µF (1000m)	–	0.9µF (3000m)	–

* EVG = electronic ballast units; KVG = conventional ballast units ¹⁾ Secondary cable length with a maximum of 2m. ²⁾ At a load of more than 200W (EUD12DK:400W, EUD12F: 100W) a ventilation clearance of 1/2 module to adjacent devices must be maintained. The switching capacity of the EUD61 and DTD depends also on the ventilation conditions. ³⁾ Per dimmer or capacity enhancer it is only allowed to use max. 2 inductive (wound) transformers of the same type, furthermore no-load operation on the secondary part is not permitted. The dimmer might be destroyed. Therefore do not permit load breaking on the secondary part. Operation in parallel of inductive (wound) and capacitive (electronic) transformers is not permitted! ⁴⁾ When calculating the load a loss of 20% for inductive (wound) transformers and a loss of 5% for capacitive (electronic) transformers must be considered in addition to the lamp load. ⁵⁾ Affects the max. switching capacity. ⁶⁾ In the settings ESL and LED no wound (inductive) transformer must be dimmed. ⁷⁾ Increase of capacity for dimmable energy saving lamps ESL and dimmable 230V LED lamps see page 9-8. ⁸⁾ Only 1 fan motor may be connected. ⁹⁾ For 12V halogen and LED lamps. ¹⁰⁾ Usually applies for dimmable energy saving lamps and dimmable 230V LED lamps. Different lamp electronics may result in restricted dimming areas, on/off problems and a limited maximum number of lamps (to 10 units), especially if the connected load is very low (e.g. with 5W LEDs). The comfort positions of the dimmer switches optimize the dimming range, which, however, only gives a maximum power up to 100W. No inductive (wound) transformers may be dimmed in these comfort positions.

To comply with DIN VDE 0100-443 and DIN VDE 0100-534, a Type 2 or Type 3 surge protection device (SPD) must be installed.