

## LED Drivers with different phase-cut dimmers

### SLA AC G2 50mm SNC (28001934-28001939), 230V/50Hz

#### ⚠ CAUTION!

The maximum number of LED Drivers per dimmer is defined by the power of the LED Driver and the dimmer:

- \_ The total power of all connected LED Drivers must not exceed 50 % of the power of the dimmer.

#### Example:

- \_ Power of dimmer: 600 W → 50 % power: 300 W
- \_ Power of LED Driver: 15 W
- \_ Maximum number of LED Drivers:  $300 \text{ W} : 15 \text{ W} \leq 20$  devices

## Values for dimmers

#### i NOTICE

More detailed information about dimmer values at different operating points (220Vac/50Hz, 230Vac/50Hz, 240Vac/50Hz) can be provided if needed. Please contact your local supplier.

| Product name | Article number | Dimmer <sup>1</sup> type | Driver per dimmer | Linearity | Noise <sup>2</sup> rating | Flicker <sup>3</sup> rating | Min dimming level | Other issues <sup>4</sup> / Summary |
|--------------|----------------|--------------------------|-------------------|-----------|---------------------------|-----------------------------|-------------------|-------------------------------------|
| GIRA         | 0302 00/I01    | leading                  | 1-28              | 1         | 1                         | 1                           | 12 %              |                                     |
| GIRA         | 2262 00/I01    | leading                  | 1-9               | 1         | 1                         | 1                           | 13 %              |                                     |
| GIRA         | 1182 00/I01    | leading                  | 1-17              | 1         | 1                         | 1                           | 12 %              |                                     |
| GIRA         | 1184 00/I01    | leading                  | 1-19              | 1         | 1                         | 1                           | 15 %              |                                     |
| GIRA         | 117600/I01     | trailing                 | 1-16              | 1         | 1                         | 1                           | 17 %              |                                     |
| Busch        | 6523 U-102     | universal                | 1-20              | 1         | 1                         | 1                           | 0 %               |                                     |
| Busch        | 2250 U         | leading                  | 1-28              | 1         | 1                         | 1                           | 8 %               |                                     |

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|         |                  |           |      |   |     |   |      |                |
|---------|------------------|-----------|------|---|-----|---|------|----------------|
| Berker  | 283010           | leading   | 1-19 | 1 | 1   | 1 | 14 % |                |
| JUNG    | 225 TDE          | trailing  | 1-25 | 1 | 1   | 1 | 12 % |                |
| JUNG    | 225NVDE          | leading   | 1-9  | 1 | 1   | 1 | 0 %  |                |
| JUNG    | 266 GDE          | leading   | 1-25 | 1 | 1   | 1 | 12 % |                |
| JUNG    | 254 UDIE 1       | universal | 1-28 | 1 | 1   | 1 | 18 % |                |
| Legrand | 078401           | universal | 1-19 | 1 | 1   | 1 | 0 %  |                |
| Legrand | HPM CAT400T      | trailing  | N/A  | 1 | N/A | 1 | 87 % | Poor dim depth |
| Legrand | Cat403L          | leading   | N/A  | 2 | N/A | 4 | 21 % | not useful     |
| Clipsal | 32E450TM         | trailing  | 1-21 | 1 | 1   | 1 | 12 % |                |
| Clipsal | 32E450UDM        | universal | 1-21 | 1 | 1   | 1 | 14 % |                |
| Clipsal | 32E450LM         | leading   | 1-1  | 1 | 1   | 1 | 10 % |                |
| SAL     | SDA450           | trailing  | 1-21 | 1 | 1   | 1 | 11 % |                |
| SAL     | SDD350           | trailing  | 1-16 | 1 | 1   | 1 | 1 %  |                |
| EHMANN  | LICHTREGLER T46S | trailing  | N/A  | 5 | N/A | 4 | 32 % | not useful     |
| Siemens | 5TCB 257         | leading   | 1-23 | 1 | 1   | 1 | 0 %  |                |
| ELKO    | 316GLED          | trailing  | 1-15 | 1 | 1   | 1 | 12 % |                |
| ELKO    | 315GLE-2Pole     | trailing  | 1-15 | 1 | 1   | 1 | 7 %  |                |
| ELKO    | 315GLE           | trailing  | 1-15 | 1 | 1   | 1 | 4 %  |                |

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|                  |                |           |      |   |   |   |      |
|------------------|----------------|-----------|------|---|---|---|------|
| E-LITE           | U116           | trailing  | 1-23 | 1 | 1 | 1 | 9 %  |
| Legrand          | 78405          | universal | 1-4  | 1 | 1 | 1 | 0 %  |
| Feller/Schneider | 40300 RC       | trailing  | 1-14 | 1 | 1 | 1 | 14 % |
| Feller/Schneider | 40600 RL       | leading   | 1-1  | 1 | 1 | 1 | 7 %  |
| Hager            | EVN011         | universal | 1-14 | 1 | 1 | 1 | 12 % |
| Hager            | EVN 012        | universal | 1-14 | 1 | 1 | 1 | 12 % |
| Finder           | 15.91.8        | leading   | 1-3  | 1 | 1 | 1 | 6 %  |
| Niko             | 325            | universal | 1-15 | 1 | 1 | 1 | 0 %  |
| Busch            | 2247U          | leading   | 1-23 | 1 | 1 | 1 | 16 % |
| Feller/Schneider | 40200.LED.F.61 | universal | 1-19 | 1 | 1 | 1 | 14 % |

### Explanation:

1. Dimmer types: leading, trailing, universal
2. Noise evaluation: 1 (very little noise) → 4 (strong noise).  
Noise evaluation was only carried out for full load. Values for minimum load are less critical. For reference refer to full load.
3. Flicker evaluation: 1 (no flicker) → 4 (strong flicker)
4. Other issues: description of the issue.  
ZSL-UP is an additional circuit that can improve the dimming behaviour of specific lamps.