

# PRODUCT DATASHEET

## DR DS-P -90/220-240/775 L NSV OEM

LED DRIVER DIP-SWITCH LINEAR | Linear constant current LED driver with dip-switch current setting



### Areas of application

- Suitable for LED luminaires and LED modules
- Applicable for luminaires of protection class I
- Suitable for indoor non-SELV installations
- Suitable for emergency installations
- Linear lighting for office, education, industry, storage areas and retail

### Product benefits

- High flexibility due to adjustable output currents via dip switch (16 currents)
- Low flickering enables high light quality as well as good visual comfort
- Flexible dip switch current settings on device in 25mA steps
- Geometry according to Zhaga specification
- High efficiency
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- 5 years guarantee

### Product features

- Available in 40 W, 60 W, 90 W and 150 W
- Very long lifetime: up to 100,000 h
- Type of protection: IP20
- Low ripple current < 5%
- Supply voltage: 220...240 V
- Operating frequency: 0/50/60 Hz
- ENEC-certified safety
- Safety according to EN 61347-1, 61347-2-13, 62384
- Immunity according to EN 61547

TECHNICAL DATA

Electrical data

|                                          |                           |
|------------------------------------------|---------------------------|
| Nominal output power                     | 90 W                      |
| Nominal output voltage                   | 40...220 V                |
| Input voltage AC                         | 198...264 V <sup>1)</sup> |
| Input voltage DC                         | 180...270 V <sup>1)</sup> |
| Nominal current                          | 0.43 A                    |
| Nominal output current                   | 300-775 mA <sup>2)</sup>  |
| Inrush current                           | 30 A <sup>3)</sup>        |
| Output current tolerance                 | ±3.0 %                    |
| Output ripple current (100 Hz)           | 5 %                       |
| Output ripple current (120 Hz)           | 5 %                       |
| Mains frequency                          | 0/50/60 Hz                |
| Total harmonic distortion                | 10 % <sup>4)</sup>        |
| Power factor $\lambda$                   | > 0.97 <sup>4)</sup>      |
| ECG efficiency                           | 94 % <sup>4)</sup>        |
| Device power loss                        | 8 W                       |
| Max. ECG no. on circuit breaker 10 A (B) | 9                         |
| Max. ECG no. on circuit breaker 13 A (B) | 12                        |
| Max. ECG no. on circuit breaker 16 A (B) | 14                        |
| Max. ECG no. on circuit breaker 10 A (C) | 16                        |
| Max. ECG no. on circuit breaker 13 A (C) | 19                        |
| Max. ECG no. on circuit breaker 16 A (C) | 23                        |
| Surge capability (L/N-Ground)            | 2 kV                      |
| Surge capability (L-N)                   | 1 kV                      |

- 1) Permitted voltage range
- 2) Default value 300mA
- 3) At 230 V AC, T<sub>a</sub> = 25 °C
- 4) At full load, 220...240 V, 50 Hz

Dimensions & Weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Length                               | 211.00 mm                 |
| Mounting hole spacing, length        | 200.00 mm                 |
| Width                                | 31.00 mm                  |
| Height                               | 22.00 mm                  |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> |
| Prewired                             | No                        |
| Wire preparation length, input side  | 8.00 mm                   |
| Wire preparation length, output side | 8.00 mm                   |
| Product weight                       | 172.00 g                  |

### Colors & materials

|                 |              |
|-----------------|--------------|
| Product color   | White        |
| Casing material | Metal / CGCC |
| Body material   | Metal        |

### Temperatures & operating conditions

|                                          |              |
|------------------------------------------|--------------|
| Ambient temperature range                | -25...+50 °C |
| Maximum temperature at tc test point     | 80 °C        |
| Max.housing temperature in case of fault | < 110 °C     |
| Permitted rel. humidity during operation | 5...85 %     |

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| ECG lifetime               | 100000 h <sup>1)</sup> |
| Number of switching cycles | 100000                 |

<sup>1)</sup> At T<sub>c</sub> max. - 10°C

### Additional product data

|              |     |
|--------------|-----|
| Encapsulated | Yes |
|--------------|-----|

### Capabilities

|                                        |       |
|----------------------------------------|-------|
| Dimmable                               | No    |
| Overheating protection                 | Yes   |
| Overload protection                    | Yes   |
| Short-circuit protection               | Yes   |
| Max. cable length to lamp/LED module   | 2,0 m |
| Suitable for fixtures with prot. class | I     |
| Suitable for emergency lighting        | Yes   |

|                                 |               |
|---------------------------------|---------------|
| Type of connection, output side | Push terminal |
|---------------------------------|---------------|

### Certificates & Standards

|                           |                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / ENEC / UKCA / EAC / EL                                                                                                     |
| Standards                 | Acc. to EN 61347-1 / Acc. to ENEC 61347-2-13 / Acc. to EN 62384 /<br>Acc. to EN 55015 / Acc. to EN 61000-3-2 / Acc. to EN 61547 |
| Protection class          | I                                                                                                                               |
| Type of protection        | IP20                                                                                                                            |

### LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -40...+85 °C |
|------------------------------|--------------|

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                                            |
|------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------|
|    | User instruction / safety instructions | DR DS-P-40-150/220-240 L NSV                             |
|   | Legal information                      | DR DS-SENS- SF FL                                        |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG                       |
|  | Declarations of conformity             | DR DS-P                                                  |
|  | Declarations of conformity UKCA        | DR-V driver                                              |
| CAD/BIM files                                                                      |                                        | Document name                                            |
|  | CAD STEP 3D                            | DR DS P 40 92W                                           |
| Tender texts                                                                       |                                        | Document name                                            |
|  | Tender documents                       | LED DRIVER DIP SWITCH LINEAR 90 220 240 775 L NSV OEM-en |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4099854264986 | Unpacked<br>1                | 211 mm x 31 mm x 22 mm               | 172.00 g     | 0.14 dm <sup>3</sup> |
| 4099854264993 | Shipping box<br>20           | 433 mm x 262 mm x 80 mm              | 4020.00 g    | 9.08 dm <sup>3</sup> |

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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## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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