



NO IMAGE  
AVAILABLE

## BDF200-NH-11-WS20-LTRD-LTGN

- slender shock-proof thermoplastic enclosure
- to be installed at an ergonomic favourable position
- to be fitted to commercial-off-the-shelf aluminium profiles
- Thermoplastic enclosure
- slender shock-proof enclosure
- large range of illuminated pushbuttons, Selector switches, LED indicator lights, Key-operated selector switches and Emergency-Stop buttons
- Emergency stop, on/off and reset functions available
- The position of the pushbuttons on the control panel can be freely selected.
- Field labelling with separate plastic cover
- Freely installable button caps for an optimal adaptation to the plants

## Data

### Ordering data

|                               |                             |
|-------------------------------|-----------------------------|
| Product type description      | BDF200-NH-11-WS20-LTRD-LTGN |
| Article number (order number) | 103005512                   |
| EAN (European Article Number) | 4030661434186               |
| eCl@ss number, version 12.0   | 27-37-12-16                 |
| eCl@ss number, version 11.0   | 27-37-12-16                 |
| eCl@ss number, version 9.0    | 27-37-12-16                 |
| ETIM number, version 7.0      | EC000225                    |
| ETIM number, version 6.0      | EC000225                    |
| Note (Ordering data)          | Notice: see ordering code   |

### Approvals - Standards

Certificates

cULus

## General data

|                            |  |
|----------------------------|--|
| Standards                  | EN ISO 13850<br>EN IEC 60947-5-1<br>EN IEC 60947-5-5<br>EN IEC 60947-1 |
| Climatic stress            | IEC 60068-2-30   |
| Versions                   | Assembly housing   |
| Housing material           | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing      |
| Positions used, position 1 | Emergency stop pushbutton  |
| Positions used, position 2 | Selector switch 2 positions  |
| Positions used, position 3 | Illuminated pushbutton, red  |
| Positions used, position 4 | Illuminated pushbutton, green  |
| Gross weight               | 280 g  |

## General data - Features

|                       |     |
|-----------------------|-----|
| Emergency-Stop button | Yes |
| Safety functions      | Yes |
| Removable Terminals   | Yes |
| Number of cable wires | 16  |

## Safety classification

|              |                |
|--------------|----------------|
| Standards    | EN ISO 13849-1 |
| Mission time | 20 Year(s)     |

## Safety classification - Safety outputs

|   |                    |
|---|--------------------|
| B <sub>10D</sub> Normally-closed contact (NC) | 100,000 Operations |
|---|--------------------|

## Mechanical data

|  |   |
|--|---|
| Position of the cable gland  | bottom                                      |
| Mechanical life, Emergency-Stop button                                   | 100,000 Operations                          |
| Mechanical life, Command devices   | 1,000,000 Operations                        |
| Mechanical life, Key operated- selector switch                           | 30,000 Operations                           |
| Actuating stroke   | 3 mm  |
| Actuating force, maximum   | 8 N   |
| Note (Actuating force)   | each contact                                |
| Contact force, typically   | 1 N   |
| Mounting   | interior mounting holes                     |
| Type of the fixing screws  | 2x M5                                       |
| Tightening torque of the fastening screws for the housing cover, minimum | 0.7 Nm                                      |
| Tightening torque of the fastening screws for the housing cover, maximum | 0.8 Nm                                      |
| Tightening torque of the cable gland, maximum                            | 4 Nm  |
| Note   | Maximum tightening cable gland cap nut 3 Nm |

### **Mechanical data - Connection technique**

|  |                           |
|--|---------------------------|
| Cable entry                                      | M20 cable gland           |
| Cable cross-section of the cable glands, minimum | 6 mm                      |
| Cable cross-section of the cable glands, maximum | 13 mm                     |
| Wire cross-section                               | 0.5 mm <sup>2</sup>       |
| Terminal (mechanical)                            | Removable screw terminals |

### **Mechanical data - Dimensions**

|        |        |
|--------|--------|
| Width  | 40 mm  |
| Height | 69 mm  |
| Depth  | 249 mm |

### **Ambient conditions**

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|----------------------|------|

|                          |                          |
|--------------------------|--------------------------|
| Ambient temperature      | -25 ... +65 °C           |
| Resistance to vibrations | 10 ... 100 Hz, with 20 g |
| Resistance to shock      | 100 g / 6 ms             |

### Ambient conditions - Insulation values

|   |         |
|---|---------|
| Rated insulation voltage $U_i$            | 250 VAC |
| Rated impulse withstand voltage $U_{imp}$ | 2.5 kV  |
| Overvoltage category                      | III     |
| Overvoltage category                      | III     |
| Degree of pollution                       | 3       |

### Electrical data

|  |  |
|--|--|
| Thermal test current                         | 2 A<br>2.5 A                           |
| LED current consumption (operating elements) | 16 mA                                  |
| Rated operating voltage                      | 24 VDC                                 |
| Utilisation category AC-15                   | 24 VAC                                 |
| Utilisation category AC-15                   | 2 A                                    |
| Utilisation category DC-13                   | 24 VDC                                 |
| Utilisation category DC-13                   | 1 A                                    |
| External wire and device fuse rating         | 2.5A T                                 |
| Suitable for low-voltages                    | $\geq 5 \text{ V} / \geq 1 \text{ mA}$ |
| Switching principle                          | Slow action<br>cross-point-system      |
| Maximum switching frequency                  | 1,200 /h                               |
| Material of the contacts, electrical         | Ag-Ni 10, gold-plated                  |

### Status indication

|                              |                                |
|------------------------------|--------------------------------|
| Colour of the indicator lamp | without (Blanking plug, black) |
|------------------------------|--------------------------------|

### Other data

## Ordering code

Product type description:  
BDF 200-(1)-(2)-(3)-(4)-(5)-(6)

|               |  |
|---------------|--|
| (1)           |  |
| <b>NH</b>     | Emergency stop pushbutton without protective collar  |
| <b>NHK</b>    | Emergency stop with protective collar  |
| <b>LT..</b>   | Selection (Color Illuminated pushbutton)   |
| <b>LM..</b>   | Indicator light (selection colour)   |
| <b>DT..</b>   | Push button (Selection Color)  |
| <b>PT..</b>   | Mushroom push button   |
| (2)           |  |
| <b>20</b>     | with EMERGENCY-STOP: 2 NO position 2-4 > without EMERGENCY STOP: 2 NO position 1-4           |
| <b>11</b>     | with EMERGENCY-STOP: 1 NO/1 NC position 2-4 > without EMERGENCY STOP: 1 NO/1 NC position 1-4 |
| <b>10</b>     | with EMERGENCY-STOP: 1 NO position 2-4 > without EMERGENCY STOP: 1 NO position 1-4           |
| (3)           |  |
| <b>WS 2/3</b> | Selector switch, 2/3 switch position   |
| <b>WT 2/3</b> | Selector switch, 2/3 switch positions  |
| <b>SW 20</b>  | Key switch/button, 2 switch positions  |
| <b>LT..</b>   | Illuminated control push button (selection colour)   |
| <b>LM..</b>   | Indicator light (selection colour)   |
| <b>DT..</b>   | Push button (Selection Color)  |
| <b>PT..</b>   | Mushroom push button   |
| (4)           |  |
| <b>WS 2/3</b> | Selector switch, 2/3 switch position   |
| <b>WT 2/3</b> | Selector switch, 2/3 switch positions  |
| <b>SW 20</b>  | Key switch/button, 2 switch positions  |

|             |  |
|-------------|--|
| <b>LT..</b> | Illuminated control push button (selection colour) |
| <b>LM..</b> | Indicator light (selection colour)                 |
| <b>DT..</b> | Push button (Selection Color)                      |
| <b>PT..</b> | Mushroom push button                               |

(5)

|             |  |
|-------------|--|
| <b>LT..</b> | Illuminated control push button (selection colour) |
| <b>LM..</b> | Indicator light (selection colour)                 |
| <b>DT..</b> | Push button (Selection Color)                      |
| <b>PT..</b> | Mushroom push button                               |

(6)

|                |   |
|----------------|---|
| <b>without</b> | without indicator lamp                  |
| <b>G24</b>     | with indicator lamp, red (only for -10) |

(7)

|                |                                |
|----------------|--------------------------------|
| <b>without</b> | Included in standard version   |
| <b>2875</b>    | Freely installable button caps |

## Pictures

### Product picture (catalogue individual photo)



NO IMAGE  
AVAILABLE

ID: no-pic01  
 | 98.4 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 px - 72 dpi  
 | 3.3 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi  
 | 26.4 kB | .jpg | 123.472 x 123.472 mm - 350 x 350 px - 72 dpi

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 21/08/2024, 7:49 am