DATASHEET

BDF200-NHK-20-DTYE-SWS20-LMBU

- 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-NHK-20-DTYE-SWS20-LMBU
Article number (order number)	101212856
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 EN IEC 60947-5-1 EN IEC 60947-5-5 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, with protective collar
Positions used, position 2	Pushbutton, yellow
Positions used, position 3	Key selector switch 2 positions
Positions used, position 4	Indicator light, blue
Gross weight	280 g

General data - Features

Emergency-Stop button	Yes
Protective collar in housing cover	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_{10D} 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	Miaximum 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^2
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
Restistance 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 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	≥ 5 V / ≥ 1 mA
Switching principle	Slow action 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

Note (applications)	Suitable for 40 mm profiles

Ordering code

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

(1)

NH	Emergency stop pushbutton without protective collar
NHK	Emergency stop with protective collar
LT..	Selection (Color Illuminated pushbutton)
LM..	Indicator light (selection colour)
DT..	Push button (Selection Color)
PT..	Mushroom push button

(2)

20	with EMERGENCY-STOP: 2 NO position 2-4 > without EMERGENCY STOP: 2 NO position 1-4
11	with EMERGENCY-STOP: 1 NO/1 NC position 2-4 > without EMERGENCY STOP: 1 NO/1 NC position 1-4
10	with EMERGENCY-STOP: 1 NO position 2-4 > without EMERGENCY STOP: 1 NO position 1-4

(3)

WS 2/3	Selector switch, 2/3 switch position
WT 2/3	Selector switch, 2/3 switch positions
SW 20	Key switch/button, 2 switch positions
LT..	Illuminated control push button (selection colour)
LM..	Indicator light (selection colour)
DT..	Push button (Selection Color)
PT..	Mushroom push button

(4)

WS 2/3	Selector switch, 2/3 switch position
WT 2/3	Selector switch, 2/3 switch positions
SW 20	Key switch/button, 2 switch positions

LT..	Illuminated control push button (selection colour)
LM..	Indicator light (selection colour)
DT..	Push button (Selection Color)
PT..	Mushroom push button

(5)

LT..	Illuminated control push button (selection colour)
LM..	Indicator light (selection colour)
DT..	Push button (Selection Color)
PT..	Mushroom push button

(6)

without	without indicator lamp
G24	with indicator lamp, red (only for -10)

(7)

without	Included in standard version
2875	Freely installable button caps

Pictures

Product picture (catalogue individual photo)

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