Main switch Flush mounting

Part no. P1-25/EA/SVB
Article no. 041097
Catalog No. SP1-025-DMCRQ

Delivery programme

<table>
<thead>
<tr>
<th>Product range</th>
<th>Switch-disconnectors T, P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic function</td>
<td>Main switches</td>
</tr>
<tr>
<td></td>
<td>Maintenance switches</td>
</tr>
<tr>
<td></td>
<td>Manual override switches</td>
</tr>
<tr>
<td>Part group reference</td>
<td>P1 as emergency switching off/ emergency stop function</td>
</tr>
<tr>
<td>Emergency STOP</td>
<td>With red rotary handle and yellow locking ring</td>
</tr>
<tr>
<td></td>
<td>without auxiliary contacts</td>
</tr>
<tr>
<td></td>
<td>auxiliary contact fitted by user</td>
</tr>
<tr>
<td></td>
<td>neutral conductor fitted by user</td>
</tr>
</tbody>
</table>

Contacts

Main circuits

Poles

Auxiliary contacts

- Auxiliary contact fitted by user
- Neutral conductor fitted by user

Contacts

Poles

Auxiliary contacts

- Auxiliary contact fitted by user
- Neutral conductor fitted by user

Contact sequence

Front plate no.

Bemessungsbedarfsleistung AC-23A, 50 - 60 Hz
400 V

Rated uninterrupted current

<table>
<thead>
<tr>
<th>Poles</th>
<th>Auxiliary contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

Locking facility

Lockable in the 0 (Off) position

Protection type

Front IP65

Design

main switch flush mounting

Approvals

Product Standards
UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking

UL File No. E38332
UL Category Control No. NLRV
UL Class No. 3211-05

North America Certification
UL listed, CSA certified

Suitable for
Branch circuits, suitable as motor disconnect

Degree of Protection
IEC: IP65, UL/CSA Type 3R, 12

General

Standards
IEC/EN 60947, VDE 0650, IEC/EN 60204, CSA, UL
Switch-disconnector according to IEC/EN 60947-3
NEMA3R, NEMA12

Climatic proofing
Damp heat, constant, to IEC 60669-2-78
Damp heat, cyclic, to IEC 60669-2-30
### Ambient temperature
- **Open**: °C -25 - +50
- **Enclosed**: °C -25 - +40

### Overvoltage category/pollution degree
- **III/3**

### Rated impulse withstand voltage
- **U\text{imp}**
  - **AC**: 6000 V
  - **g**: 15 g

### Mechanical shock resistance
- **15 g as required**

### Mounting position
- **As required**

### Protection against direct contact when actuated from front (EN 50274)
- **Finger and back-of-hand proof**

### Contacts
- **Mechanical variables**
  - **Main circuits**
  - **Poles**: 3
  - **Auxiliary contacts**

### Electrical characteristics
- **Rated operational voltage**
- **Rated uninterrupted current**
  - **Note on rated uninterrupted current I_u**
- **Load rating with intermittent operation, class 12**
  - **AB 25 % DF**
  - **AB 40 % DF**
  - **AB 60 % DF**
- **Rated short-time withstand current (1 sec current)**
  - **Rated short-time withstand current I_{cw}**
  - **Note on rated short-time withstand current I_{cw}**

### Switching capacity

#### Bemessungsausschaltvermögen \( \cos \phi \) nach IEC 60947-3
- **230 V**
- **400/415 V**
- **500 V**
- **690 V**

<table>
<thead>
<tr>
<th>V</th>
<th>( A_{\text{e}} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>230 V</td>
<td>190</td>
</tr>
<tr>
<td>400/415 V</td>
<td>150</td>
</tr>
<tr>
<td>500 V</td>
<td>170</td>
</tr>
<tr>
<td>690 V</td>
<td>150</td>
</tr>
</tbody>
</table>

- **Safe isolation to EN 61140**
- **between the contacts**
- **Current heat loss per contact at I_e**
- **Lifespan, mechanical**
- **Maximum operating frequency**

### AC

#### Rating, motor load switch
- **220 V 230 V**
- **380 V 400 V**
- **400 V 415 V**
- **500 V**
- **690 V**

#### Bemessungsbetriebsstrom Motorschalter
- **230 V**
- **400 V 415 V**
- **500 V**
- **690 V**

- **P kW**
  - 5.5 kW
  - 7.5 kW
  - 7.5 kW
  - 7.5 kW

- **I_1 A**
  - 19.6 A
  - 15.2 A
  - 12.1 A
  - 8.8 A

- **I_2 A**
  - 19.6 A
  - 15.2 A
  - 12.1 A
  - 8.8 A

- **I_3 A**
  - 19.6 A
  - 15.2 A
  - 12.1 A
  - 8.8 A
### AC-21A
Bemessungsbetriebsstrom Lastschalter
- 440 V

### AC-23A
Bemessungsbetriebsleistung AC-23A, 50 - 60 Hz
- 230 V
- 400 V
- 415 V
- 500 V
- 690 V

### Bemessungsbetriebsstrom Motorschalter
- 230 V

### DC
DC-1, Load-break switches L/R = 1 ms
- Rated operational current
- Voltage per contact pair in series

DC-23A, motor load switch L/R = 15 ms
- 24 V
- Rated operational current

- 48 V
- Rated operational current

- 60 V
- Rated operational current

- 120 V
- Rated operational current

### Terminal capacities
Flexible with ferrules to DIN 46228

Flexible with ferrule

### Terminal screw
Max. tightening torque

### Technical data ETIM 5.0
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector

| Version as switch disconnector | compact | Yes |
| Version as main switch | Yes |
| Version as maintenance-/service switch | Yes |
| Version as safety switch | No |
| Version as emergency stop installation | Yes |
| Max. rated operation voltage Ue AC | 690 V |
| Rated permanent current Io | 25 A |
| Rated operation power AC-3, 400 V | 7.5 kW |
| Rated operation power at AC-23, 400 V | 13 kW |
| Conditioned rated short-circuit current | 0 kA |
| Number of poles | 3 |
| Number of auxiliary contacts as normally closed contact | 0 |
| Number of auxiliary contacts as normally open contact | 0 |
| Number of auxiliary contacts as change-over contact | 0 |
| Motor drive optional | No |
| Motor drive integrated | No |
| Voltage release optional | No |
| Device construction | Built-in device fixed built-in technique |
| Suitable for ground mounting | No |
| Suitable for front mounting | No |
| Suitable for front mounting center | No |
| Suitable for distribution board installation | No |
| Suitable for intermediate mounting | No |
Type of control element
Interlockable
Connection type main current circuit
Screw connection
Degree of protection (IP), front side
IP55

Dimensions

\[
\begin{align*}
\text{d} &= 4 - 8 \text{ mm} \\
\text{b} + \text{d} &\leq 47 \text{ mm}
\end{align*}
\]

ZFS-... Label mount not included as standard
Drilling dimensions door

Additional product information (links)
IL03802003Z (AWA1150-1890) Switch-Disconnectors for flush mounting
http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=4.87
http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2
http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4
http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8