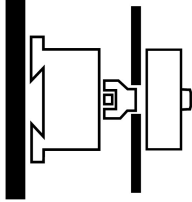
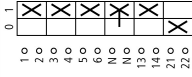
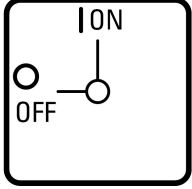




**Main switch, P1, 40 A, rear mounting, 3 pole + N, 1 N/O, 1 N/C, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position**

**Part no. P1-40/V/SVB-SW/N/HI11**  
**Catalog No. 199962**

**Delivery program**

|  |                |     |  |
|--|----------------|-----|--|
| Product range                                      |                |     | Main switch<br>maintenance switch  |
| Part group reference                               |                |     | P1   |
| Stop Function                                      |                |     | STOP function<br>With black rotary handle and locking ring   |
| Number of poles                                    |                |     | 3 pole + N   |
| <b>Auxiliary contacts</b>                          |                |     |  |
|  |                | N/O | 1  |
|  |                | N/C | 1  |
| Locking facility                                   |                |     | Lockable in the 0 (Off) position   |
| Degree of Protection                               |                |     | Front IP65   |
| Design   |                |     | rear mounting<br> |
| Contact sequence                                   |                |     |                  |
| Switching angle                                    |                | °   | 90   |
| Function   |                |     |                  |
| <b>Motor rating AC-23A, 50 - 60 Hz</b>             |                |     |  |
| 400 V  | P              | kW  | 22   |
| Rated uninterrupted current                        | I <sub>u</sub> | A   | 40   |
| Note on rated uninterrupted current I <sub>u</sub> |                |     | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.                      |

**Technical data**

|                                       |                  |      |  |
|---------------------------------------|------------------|------|--|
| <b>General</b>                        |                  |      |  |
| Standards                             |                  |      | IEC/EN 60947, IEC/EN 60204<br>Switch-disconnector according to IEC/EN 60947-3  |
| Climatic proofing                     |                  |      | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature                   |                  |      |  |
| Open                                  |                  | °C   | -25 - +50  |
| Enclosed                              |                  | °C   | -25 - +40  |
| Overvoltage category/pollution degree |                  |      | III/3  |
| Rated impulse withstand voltage       | U <sub>imp</sub> | V AC | 6000   |
| Mechanical shock resistance           |                  | g    | 15   |

|   |                   |               |  |
|---|-------------------|---------------|--|
| Mounting position                                   |                   |               | As required  |
| <b>Contacts</b>                                     |                   |               |  |
| Mechanical variables                                |                   |               |  |
| Number of poles                                     |                   |               | 3 pole + N   |
| Auxiliary contacts                                  |                   |               |  |
|   |                   | N/O           | 1  |
|   |                   | N/C           | 1  |
| Electrical characteristics                          |                   |               |  |
| Rated operational voltage                           | $U_e$             | V AC          | 690  |
| Rated uninterrupted current                         | $I_u$             | A             | 40   |
| Note on rated uninterrupted current $I_u$           |                   |               | Rated uninterrupted current $I_u$ is specified for max. cross-section. |
| Short-circuit rating                                |                   |               |  |
| Fuse  |                   | A gG/gL       | 50   |
| Rated short-time withstand current (1 s current)    | $I_{cw}$          | $A_{rms}$     | 640  |
| Note on rated short-time withstand current $I_{cw}$ |                   |               | Current for a time of 1 second   |
| <b>Switching capacity</b>                           |                   |               |  |
| Safe isolation to EN 61140                          |                   |               |  |
| between the contacts                                |                   | V AC          | 440  |
| Current heat loss per contact at $I_e$              |                   | W             | 3.5  |
| Lifespan, mechanical                                | Operations        | $\times 10^6$ | > 0.3  |
| Maximum operating frequency                         | Operations/h      |               | 1200   |
| AC  |                   |               |  |
| AC-3  |                   |               |  |
| Rating, motor load switch                           | P                 | kW            |  |
| 220 V 230 V   | P                 | kW            | 7.5  |
| 400 V 415 V   | P                 | kW            | 15   |
| 690 V   | P                 | kW            | 15   |
| Rated operational current motor load switch         |                   |               |  |
| 230 V   | $I_e$             | A             | 30   |
| 400V 415 V  | $I_e$             | A             | 30   |
| 690 V   | $I_e$             | A             | 17   |
| AC-21A  |                   |               |  |
| Rated operational current switch                    |                   |               |  |
| 400 V 415 V   | $I_e$             | A             | 40   |
| 500 V   | $I_e$             | A             | 40   |
| 690 V   | $I_e$             | A             | 40   |
| AC-22A  |                   |               |  |
| Rated operational current switch                    |                   |               |  |
| 400 V 415 V   | $I_e$             | A             | 40   |
| 500 V   | $I_e$             | A             | 40   |
| 690 V   | $I_e$             | A             | 40   |
| AC-23A  |                   |               |  |
| Motor rating AC-23A, 50 - 60 Hz                     | P                 | kW            |  |
| 230 V   | P                 | kW            | 11   |
| 400 V 415 V   | P                 | kW            | 22   |
| 690 V   | P                 | kW            | 17   |
| Rated operational current motor load switch         |                   |               |  |
| 230 V   | $I_e$             | A             | 40   |
| 400 V 415 V   | $I_e$             | A             | 40   |
| 690 V   | $I_e$             | A             | 20   |
| Control circuit reliability at 24 V DC, 10 mA       | Fault probability | $H_F$         | $< 10^{-5}$ , < 1 failure in 100,000 switching operations              |
| <b>Terminal capacities</b>                          |                   |               |  |
| Solid or stranded                                   |                   | $mm^2$        | 1 x (1,5 - 10)<br>2 x (1,5 - 10)                                       |

|                                      |  |                 |                            |
|--------------------------------------|--|-----------------|----------------------------|
| Flexible with ferrules to DIN 46228  |  | mm <sup>2</sup> | 1 x (1 - 4)<br>2 x (1 - 4) |
| Terminal screw                       |  |                 | M4                         |
| Tightening torque for terminal screw |  | Nm              | 1.6                        |

### Rating data for approved types

|  |  |       |        |
|--|--|-------|--------|
| Terminal capacity                        |  |       |        |
| Solid or flexible conductor with ferrule |  | AWG   | 14 - 8 |
| Terminal screw                           |  |       | M4     |
| Tightening torque                        |  | lb-in | 14.1   |

### Design verification as per IEC/EN 61439

|  |                  |   |     |
|--|------------------|---|-----|
| Technical data for design verification                   |                  |   |     |
| Rated operational current for specified heat dissipation | I <sub>n</sub>   | A | 40  |
| Heat dissipation per pole, current-dependent             | P <sub>vid</sub> | W | 1.9 |

### Technical data ETIM 8.0

|   |  |    |  |
|---|--|----|--|
| Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)   |  |    |  |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss10.0.1-27-37-14-03 [AKF060013]) |  |    |  |
| Version as main switch  |  |    | Yes                                      |
| Version as maintenance-/service switch  |  |    | Yes                                      |
| Version as safety switch  |  |    | No                                       |
| Version as emergency stop installation  |  |    | No                                       |
| Version as reversing switch   |  |    | No                                       |
| Number of switches  |  |    | 1  |
| Max. rated operation voltage U <sub>e</sub> AC  |  | V  | 690                                      |
| Rated operating voltage   |  | V  | 690 - 690                                |
| Rated permanent current I <sub>u</sub>  |  | A  | 40                                       |
| Rated permanent current at AC-23, 400 V   |  | A  | 40                                       |
| Rated permanent current at AC-21, 400 V   |  | A  | 40                                       |
| Rated operation power at AC-3, 400 V  |  | kW | 15                                       |
| Rated short-time withstand current I <sub>cw</sub>  |  | kA | 0.64                                     |
| Rated operation power at AC-23, 400 V   |  | kW | 22                                       |
| Switching power at 400 V  |  | kW | 22                                       |
| Conditioned rated short-circuit current I <sub>q</sub>  |  | kA | 80                                       |
| Number of poles   |  |    | 4  |
| Number of auxiliary contacts as normally closed contact   |  |    | 1  |
| Number of auxiliary contacts as normally open contact   |  |    | 1  |
| 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 floor mounting   |  |    | No                                       |
| Suitable for front mounting 4-hole  |  |    | No                                       |
| Suitable for front mounting centre  |  |    | No                                       |
| Suitable for distribution board installation  |  |    | No                                       |
| Suitable for intermediate mounting  |  |    | No                                       |
| Colour control element  |  |    | Black                                    |
| Type of control element   |  |    | Door coupling rotary drive               |
| Interlockable   |  |    | Yes                                      |
| Type of electrical connection of main circuit   |  |    | Screw connection                         |
| Degree of protection (IP), front side   |  |    | IP65                                     |
| Degree of protection (NEMA)   |  |    |  |

## Additional product information (links)

|  |   |
|--|---|
| Technical overview cam switch, switch-disconnector | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2</a>                                     |
| System overview cam switch T                       | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4</a>                                     |
| System overview switch-disconnector P              | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6</a>                                     |
| Key to part numbers Cam switch                     | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>                                     |
| Key to part numbers Switch-disconnector            | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>                                     |
| Switches for ATEX                                  | <a href="http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html">http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html</a> |