

## Delivery program



| Technical data |  |  |  |
| :---: | :---: | :---: | :---: |
| Switch-disconnectors |  |  |  |
| Rated operational voltage, max. | Ue | V DC | 1000 |
| Rated uninterrupted current with terminal jumpers |  |  |  |
| at $40^{\circ}$ |  |  | 800 |
| at $65^{\circ}$ |  |  | 800 |
|  |  |  | Values for rated uninterrupted current at $65^{\circ} \mathrm{C}$ include jumpers. |
| Utilization category |  |  | DC22A |
| Rated operational current | $\mathrm{I}_{\mathrm{e}}$ | A |  |
| DC 22-A | le | A | 800 |
| Overvoltage category/pollution degree |  |  | III/3 |
| Rated insulation voltage | $U_{i}$ | v | 1250 |
| Ambient temperature |  |  |  |
| Ambient temperature, storage |  | ${ }^{\circ} \mathrm{C}$ | $-40-70$ |
| Operation |  | ${ }^{\circ} \mathrm{C}$ | $-25-+70$ |
| Rated short-time withstand current |  |  |  |
| $\mathrm{t}=0.1 \mathrm{~s}$ |  | kA | 34 |
| Lifespan, mechanical |  |  |  |
| Max. operating frequency |  | Ops/h | 60 |
| Lifespan, mechanical | Operations |  | 10000 |
|  |  |  | Lifespan, mechanical: of which max. $50 \%$ trip by shunt/undervoltage release |
| Lifespan, electrical |  |  |  |
| Electrical | Operations |  | 500 |
| Terminal capacity |  |  |  |
| Standard equipment |  |  | Screw connection |
| Round copper conductor |  |  |  |
| Tunnel terminal |  |  |  |
| Stranded |  | $\mathrm{mm}^{2}$ |  |
| 4-hole |  | $\mathrm{mm}^{2}$ | $4 \times(50-240)$ |
| Bolt terminals |  |  |  |
| Direct on the switch |  |  |  |
| Stranded |  | $\mathrm{mm}^{2}$ | $\begin{aligned} & 1 \times(120-185) \\ & 4 \times(50-185) \end{aligned}$ |
| Module plate |  |  |  |
| Single hole | min. | $\mathrm{mm}^{2}$ | $1 \times(120-300)$ |
| Single hole | max. | $\mathrm{mm}^{2}$ | $2 \times(95-300)$ |
| Module plate |  |  |  |
| Double hole | min. | $\mathrm{mm}^{2}$ | $2 \times$ (95-185) |
| Double hole | max. | $\mathrm{mm}^{2}$ | $4 \times(35-185)$ |
| Connection width extension |  | $\mathrm{mm}^{2}$ |  |
| Connection width extension |  | $\mathrm{mm}^{2}$ | $\begin{aligned} & 4 \times 300 \\ & 6 \times(95-240) \end{aligned}$ |
| Al conductors, Cu cable |  |  |  |
|  |  |  |  |
| Stranded |  | $\mathrm{mm}^{2}$ |  |
| 4-hole |  | $\mathrm{mm}^{2}$ | $4 \times(25-240)$ |
| Bolt terminal and rear-side connection |  |  |  |
| Flat copper strip, with holes | min. | mm | (2x) $10 \times 50 \times 1.0$ |
| Flat copper strip, with holes | max. | mm | (2x) $10 \times 50 \times 1.0$ |
| Connection width extension |  | mm | (2x) $10 \times 80 \times 1,0$ |
| Cu strip (number of segments x width x segment thickness) |  |  |  |
| Flat conductor terminal |  |  |  |
|  | min. | mm | $6 \times 16 \times 0.8$ |


|  | max. | mm | (2x) $10 \times 32 \times 1.0$ |
| :---: | :---: | :---: | :---: |
| Module plate |  |  |  |
| Single hole |  | mm | (2x) $10 \times 50 \times 1,0$ |
| Bolt terminal and rear-side connection |  |  |  |
| Flat copper strip, with holes | min. | mm | (2x) $10 \times 50 \times 1.0$ |
| Flat copper strip, with holes | max. | mm | (2x) $10 \times 50 \times 1.0$ |
| Connection width extension |  | mm | (2x) $10 \times 80 \times 1,0$ |
| Copper busbar (width x thickness) | mm |  |  |
| Bolt terminal and rear-side connection |  |  |  |
| Screw connection |  |  | M10 |
| Direct on the switch |  |  |  |
|  | min. | mm | $20 \times 5$ |
|  | max. | mm | $\begin{aligned} & 2 \times(50 \times 10) \\ & 2 \times(80 \times 10) \end{aligned}$ |
| Module plate |  |  |  |
| Single hole | min. | mm | $25 \times 5$ |
| Single hole | max. | mm | $2 \times(50 \times 10)$ |
| Module plate |  |  |  |
| Double hole |  | mm | $2 \times(50 \times 10)$ |
| Connection width extension |  | mm |  |
| Connection width extension | min. | mm | $60 \times 10$ |
| Connection width extension | max. | mm | $2 \times(10 \times 80)$ |

## Design verification as per IEC/EN 61439

Technical data for design verification

| Rated operational current for specified heat dissipation | $\mathrm{I}_{\mathrm{n}}$ | A | 800 |
| :--- | :---: | :---: | :---: |
| Equipment heat dissipation, current-dependent | $\mathrm{P}_{\mathrm{vid}}$ | W | 81 |
| Operating ambient temperature min. |  | ${ }^{\circ} \mathrm{C}$ | -25 |
| Operating ambient temperature max. | ${ }^{\circ} \mathrm{C}$ | 70 |  |
| IEC/EN 61439 design verification |  |  |  |
| 10.2 Strength of materials and parts |  |  |  |

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70
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Meets the product standard's requirements.
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Does not apply, since the entire switchgear needs to be evaluated.
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Is the panel builder's responsibility.
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The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

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The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Switch disconnector (ECOOO216)
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010])

Version as main switch
Version as maintenance-/service switch
Version as safety switch No
Version as emergency stop installation Yes
Version as reversing switch
Max. rated operation voltage Ue AC
Rated operating voltage
Rated permanent current lu
Rated permanent current at AC-21, 400 V
Rated operation power at AC-3, 400 V
Rated short-time withstand current Icw
Rated operation power at $\mathrm{AC}-23,400 \mathrm{~V}$
Switching power at 400 V
Conditioned rated short-circuit current Iq
Number of poles
Number of auxiliary contacts as normally closed contact
Number of auxiliary contacts as normally open contact
Number of auxiliary contacts as change-over contact
Motor drive optional
Motor drive integrated
Voltage release optional
Device construction
Suitable for ground mounting
Suitable for front mounting 4-hole
Suitable for front mounting center
Suitable for distribution board installation
Suitable for intermediate mounting
Colour control element
Type of control element
Interlockable
Type of electrical connection of main circuit
Degree of protection (IP), front side

Yes YesNoYes

## Approvals

Product Standards
UL 489B; IEC 60947-3; CE marking; CCC
UL File No.
CSA File No.
CSA Class No.
North America Certification
Specially designed for North America
Suitable for
Current Limiting Circuit-Breaker
Max. Voltage Rating
Degree of Protection

UL listed
E471671

No
Feeder circuits, branch circuits
No
1000 VDC
IEC: IP20; UL/CSA Type: -

Dimensions

(1) Blow out area, minimum clearance to other parts $\geqq 260 \mathrm{~mm}$
2) Minimum clearance to adjacent parts $\geqq 15 \mathrm{~mm}$

## Additional product information (links)

IL012055ZU Switch-disconnector 1000 V DC, 1500 V DC for North America 1500 V DC for North America

CurveSelect characteristics program
Eaton configurator
Additional technical data: Photovoltaics catalog (starting on page 35)

IL012055ZU Switch-disconnector 1000 V DC, ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL012055ZU2015_07.pdf
http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/CharacteristicsProgram/index.htm http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/ConfiguratorCircuitBreaker/index.htm http://www.moeller.net/binary/pdf_kat/br01601001z_en.pdf

