

Select your language

- German
- English
- Spanish
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norwegian Bokmål

Worldwide English



P3-63/V/SVB/N/H11 - Main switch, P3, 63 A, rear mounting, 3 pole + N, 1 NO, 1 NC, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



072097 P3-63/V/SVB/N/H11

[Overview](#) [Specifications](#) [Resources](#)



072097 P3-63/V/SVB/N/H11

Main switch, P3, 63 A, rear mounting, 3 pole + N, 1 NO, 1 NC, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position

EL-Nummer (Norway)

1417083

Main switch, Product range: Main switch, maintenance switch, Repair switch, Part group reference: P3, Stop Function: Emergency switching off function, With red rotary handle and yellow locking ring, 3 pole + N, Locking facility: Lockable in the 0 (Off) position, Degree of Protection: Front IP65, Design: rear mounting, Motor rating AC-23A, 50 - 60 Hz 400 V: P = 30 kW, Rated uninterrupted current: I_u = 63 A, Standards: IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL, Switch-disconnector according to IEC/EN 60947-3, NEVA12

• [Delivery program](#)

• [Technical data](#)

• [Design verification as per IEC/EN 61439](#)

• [Technical data ETIM 7.0](#)

• [Approvals](#)

• [Dimensions](#)

Delivery program

Product range

Main switch

maintenance switch

Repair switch

Part group reference

P3

Stop Function

Emergency switching off function

With red rotary handle and yellow locking ring

Number of poles

3 pole + N

Auxiliary contacts

1

1 NO

1

1 NC

Locking facility

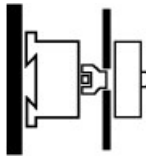
Lockable in the 0 (Off) position

Degree of Protection

Front IP65

Design

rear mounting



Contact sequence



Function



Motor rating AC-23A, 50 - 60 Hz [P]

400 V [P]

30 kW

Rated uninterrupted current [I_u]

63 A

Note on rated uninterrupted current I_u

Rated uninterrupted current I_u is specified for max. cross-section.

Technical data

General

Standards

IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL

Switch-disconnector according to IEC/EN 60947-3

NEMA 12

Climatic proofing

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature Open

-25 - +50 °C

Ambient temperature Enclosed

-25 - +40 °C

Overvoltage category/pollution degree

III/3

Rated impulse withstand voltage [U_{imp}]

6000 V AC

Mechanical shock resistance

15 g

Mounting position

As required

Contacts

Mechanical variables Number of poles

3 pole + N

Mechanical variables Auxiliary contacts $\frac{1}{2}$

1 NO

Mechanical variables Auxiliary contacts $\frac{1}{2}$

1 NC

Electrical characteristics Rated operational voltage [U_e]

690 V AC

Electrical characteristics Rated uninterrupted current [I_u]

63 A

Electrical characteristics Note on rated uninterrupted current I_u

Rated uninterrupted current I_u is specified for max. cross-section.

Load rating with intermittent operation, class 12AB 25 % DF

$2 \times I_e$

Load rating with intermittent operation, class 12AB 40 % DF

$1.6 \times I_e$

Load rating with intermittent operation, class 12AB 60 % DF

$1.3 \times I_e$

Short-circuit rating Fuse

80 A gG/gL

Rated short-time withstand current (1 s current) [I_{cw}]

1260 A_{rms}

Note on rated short-time withstand current I_{cw}

Current for a time of 1 second

Rated conditional short-circuit current [I_k]

4 kA

Switching capacity

cos ϕ rated making capacity as per IEC 60947-3

800 A
 Rated breaking capacity $\cos \phi$ to IEC 60947-3230 V
 640 A
 Rated breaking capacity $\cos \phi$ to IEC 60947-3400/415 V
 600 A
 Rated breaking capacity $\cos \phi$ to IEC 60947-3500 V
 590 A
 Rated breaking capacity $\cos \phi$ to IEC 60947-3690 V
 340 A
 Safe isolation to EN 61140 between the contacts
 440 V AC
 Safe isolation to EN 61140 Current heat loss per contact at I_e
 4.5 W
 Safe isolation to EN 61140 Current heat loss per auxiliary circuit at I_e (AC-15/230 V)
 0.2 CO
 Lifespan, mechanical [Operations]
 $> 0.1 \times 10^6$
 Maximum operating frequency [Operations/h]
 1200
 AC AC-3 Rating, motor load switch [P] 220 V 230 V [P]
 15 kW
 AC AC-3 Rating, motor load switch [P] 400 V 415 V [P]
 30 kW
 AC AC-3 Rating, motor load switch [P] 500 V [P]
 30 kW
 AC AC-3 Rating, motor load switch [P] 690 V [P]
 30 kW
 AC AC-3 Rated operational current motor load switch 230 V [I_e]
 51 A
 AC AC-3 Rated operational current motor load switch 400 V 415 V [I_e]
 55 A
 AC AC-3 Rated operational current motor load switch 500 V [I_e]
 44 A
 AC AC-3 Rated operational current motor load switch 690 V [I_e]
 22.1 A
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 230 V [P]
 18.5 kW
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 400 V 415 V [P]
 30 kW
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 500 V [P]
 45 kW
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 690 V [P]
 55 kW
 AC AC-23A Rated operational current motor load switch 230 V [I_e]
 63 A
 AC AC-23A Rated operational current motor load switch 400 V 415 V [I_e]
 63 A
 AC AC-23A Rated operational current motor load switch 500 V [I_e]
 63 A
 AC AC-23A Rated operational current motor load switch 690 V [I_e]
 63 A
 DDC-1, Load-break switches L/R = 1 ms Rated operational current [I_e]
 63 A
 DDC-1, Load-break switches L/R = 1 ms Voltage per contact pair in series
 60 V
 DDC-23A, motor load switch L/R = 15 ms 24 V Rated operational current [I_e]
 50 A
 DDC-23A, motor load switch L/R = 15 ms 24 V Contacts
 1 Quantity
 DDC-23A, motor load switch L/R = 15 ms 48 V Rated operational current [I_e]
 50 A
 DDC-23A, motor load switch L/R = 15 ms 48 V Contacts
 2 Quantity
 DDC-23A, motor load switch L/R = 15 ms 60 V Rated operational current [I_e]
 50 A
 DDC-23A, motor load switch L/R = 15 ms 60 V Contacts
 2 Quantity
 DDC-23A, motor load switch L/R = 15 ms 120 V Rated operational current [I_e]
 25 A

DODC-23A, motor load switch L/R = 15 ms 120 V Contacts

3 Quantity

Control circuit reliability at 24 V DC, 10 mA [Fault probability]

$< 10^{-5}$, < 1 failure in 100,000 switching operations H_F

Terminal capacities

Solid or stranded

1 x (2,5 - 35)

2 x (2,5 - 10) mm²

Flexible with ferrules to DIN 46228

1 x (1,5 - 25)

2 x (1,5 - 6) mm²

Terminal screw

M5

Tightening torque for terminal screw

3 Nm

Technical safety parameters:

Notes

B10_d values as per EN ISO 13849-1, table C1

Rating data for approved types

Contacts Rated operational voltage [U_e]

600 V AC

Contacts Rated uninterrupted current max. Main conducting paths General use

60 A

Contacts Rated uninterrupted current max. Auxiliary contacts General Use [I_u]

10 A

Contacts Rated uninterrupted current max. Auxiliary contacts Pilot Duty

A 600

P 600

Switching capacity Maximum motor rating Single-phase 120 V AC

3 HP

Switching capacity Maximum motor rating Single-phase 200 V AC

7.5 HP

Switching capacity Maximum motor rating Single-phase 240 V AC

10 HP

Switching capacity Maximum motor rating Three-phase 200 V AC

15 HP

Switching capacity Maximum motor rating Three-phase 240 V AC

15 HP

Switching capacity Maximum motor rating Three-phase 480 V AC

40 HP

Switching capacity Maximum motor rating Three-phase 600 V AC

50 HP

Short Circuit Current Rating Basic Rating

10 kA

Short Circuit Current Rating max. Fuse

150 A

Terminal capacity Solid or flexible conductor with ferrule

14 - 2 AWG

Terminal capacity Terminal screw

M5

Terminal capacity Tightening torque

26.5 lb-in

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n]

63 A

Heat dissipation per pole, current-dependent [P_{vd}]

4.5 W

Equipment heat dissipation, current-dependent [P_{vd}]

0 W

Static heat dissipation, non-current-dependent [P_{vs}]

0 W

Heat dissipation capacity [P_{diss}]

0 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+50 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts 10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation

UV resistance only in connection with protective shield.

10.2 Strength of materials and parts 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of ASSEMBLIES

Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

10.8 Connections for external conductors

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating

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

10.12 Electromagnetic compatibility

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

10.13 Mechanical function

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

Technical data ETIM 7.0

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

Yes

Version as reversing switch

No

Number of switches

1

Max. rated operation voltage U_e AC

690 V

Rated operating voltage

690 - 690 V

Rated permanent current I_u

63 A
 Rated permanent current at AC-23, 400 V
 63 A
 Rated permanent current at AC-21, 400 V
 63 A
 Rated operation power at AC-3, 400 V
 30 kW
 Rated short-time withstand current I_{cw}
 1.26 kA
 Rated operation power at AC-23, 400 V
 30 kW
 Switching power at 400 V
 30 kW
 Conditioned rated short-circuit current I_q
 4 kA
 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 ground mounting
 Yes
 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
 Red
 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)
 12

Approvals

Product Standards
 UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
 UL File No.
 E36332
 UL Category Control No.
 NLRV
 CSA File No.
 12528
 CSA 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 1, 12

Dimensions

- ☐ Shaft and interlock extension with ZAV-P3 + ZVV-P3 possible; max. 4 x 25 = 100 mm
- ☐ ZFS-... Label mount not included as standard
- ☐ Drilling dimensions base
- ☐ Drilling dimensions door

- ☐ 3 padlocks

CAD data

- [Product-specific CAD data](#)
(Web)
- [3D Preview](#)
(Web)

DWG files

- [DA-CD-p3_zz19](#)
File
(Web)

edz files

- [DA-CE-ETN.P3-63_V_SVB_N_H11](#)
File
(Web)

Step files

- [DA-CS-p3_zz19](#)
File
(Web)

Wiring diagram

- ☐ [115S143-2](#)
Line drawing
Main switch with auxiliary contact

Dimensions single product

- ☐ [115X070](#)
Line drawing
Padlock
- ☐ [115X129](#)
Line drawing
Rear mounting main switches
 - ☐ Shaft and interlock extension with ZAV-P3 + ZVV-P3 possible; max. 4 x 25 = 100 mm
 - ☐ ZFS-... Label mount not included as standard
 - ☐ Drilling dimensions base
 - ☐ Drilling dimensions door

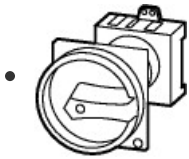
Product photo



1150PIC-203

Photo

3D drawing



1150DRW-9

Line drawing

Rear mounting main switch construction type

Instruction Leaflet

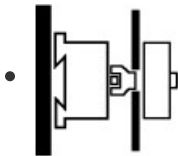
- [Switch-Disconnectors P3 for rear mounting \(IL03802005Z\)](#)

Asset

former AWA1150-1994

(PDF, 06/2021, multilingual)

Symbol



000Z429

Graphic

Load current switches centre mounting

-  [1150SFC-194](#)

Graphic

Declaration of Conformity

EU

- [Switch-disconnector P3 \(DA-DC-00003633\)](#)

Asset

(PDF)

UK

- [Switch-disconnector P3 \(DA-DC-00004008\)](#)

Asset

(PDF)

Download-Center

- [Download-Center \(this item\)](#)
Eaton EMEA Download-Center - download data for this item
- [Download-Center](#)
Eaton EMEA Download-Center



[Generate data sheet in PDF format](#)



[Generate data sheet in Excel format](#)



[Write a comment](#)

[Imprint](#) [Privacy Policy](#) [Legal Disclaimer](#) [Terms and Conditions](#)

© 2021 by Eaton Industries GmbH

