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Powering Business Worldwide

P1-40/l2/N - On-Off switch, P1, 40 A, surface mounting, 3 pole + N, with black thumb grip and front plate



199908 P1-40/I2/N

Overview Specifications Resources





199908 P1-40/I2/N

On-Off switch, P1, 40 A, surface mounting, 3 pole + N, with black thumb grip and front plate On-Off switch, Product range: On-Off switch, Part group reference: P1, with black thumb grip and front plate, Information about equipment supplied: auxiliary contact fitted by user., 3 pole + N, Degree of Protection: IP65, Design: surface mounting, Motor rating AC-23A, 50 - 60 Hz 400 V: P = 22 kW, Rated uninterrupted current: lu = 40 A, Standards: IEC/EN 60947, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 8.0

Delivery program

Product range
On-Off switch
Part group reference
P1
with black thumb grip and front plate
Information about equipment supplied
auxiliary contact fitted by user.
Number of poles
3 pole + N
Auxiliary contacts

1
0 N/O

0 NC Degree of Protection IP65 Design surface mounting



Contact sequence



000000000 Switching angle

90°

Front plate no.



FS 908

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

400 V [P]

22 kW

Rated uninterrupted current [I,]

40 A

Note on rated uninterrupted current !

Rated uninterrupted current l₁₁ is specified for max. cross-section.

Technical data

General

Standards

IEC/EN 60947, IEC/EN 60204

Switch-disconnector according to IEC/EN 60947-3

Climatic proofing

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

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

Ambient temperature Enclosed

-25 - +40 °C

Overvoltage category/pollution degree

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

Mechanical variables Auxiliary contacts 7

0 NC

Bectrical characteristics Rated operational voltage [Ue]

690 V AC

Bectrical characteristicsRated uninterrupted current [Iu]

Electrical characteristics Note on rated uninterrupted current !u

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

Short-circuit ratingFuse

50 A gG/gL

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

640 A_{rms}

Note on rated short-time withstand current lcw

Current for a time of 1 second

Switching capacity

Safe isolation to EN 61140between the contacts

Safe isolation to EN 61140 Current heat loss per contact at le

Lifespan, mechanical [Operations]

 $> 0.3 \times 10^6$

Maximum operating frequency [Operations/h]

ACAC-3Rating, motor load switch [P]220 V 230 V [P]

ACAC-3Rating, motor load switch [P]400 V 415 V [P]

15 kW

ACAC-3Rating, motor load switch [P]690 V [P]

15 kW

ACAC-3Rated operational current motor load switch230 V [le]

ACAC-3Rated operational current motor load switch400V 415 V [le]

ACAC-3Rated operational current motor load switch690 V [La]

ACAC-21ARated operational current switch400 V 415 V [La]

ACAC-21ARated operational current switch500 V [La]

40 A

ACAC-21ARated operational current switch690 V [La]

40 A

ACAC-22ARated operational current switch400 V 415 V [La]

40 A

ACAC-22ARated operational current switch500 V [la]

40 A

ACAC-22ARated operational current switch690 V [la]

40 A

ACAC-23AMotor rating AC-23A, 50 - 60 Hz [P]230 V [P]

11 kW

ACAC-23AMotor rating AC-23A, 50 - 60 Hz [P]400 V 415 V [P]

22 kW

ACAC-23AMotor rating AC-23A, 50 - 60 Hz [P]690 V [P]

17 kW

ACAC-23ARated operational current motor load switch230 V [le]

40 A

ACAC-23ARated operational current motor load switch400 V 415 V [le]

40 A

ACAC-23ARated operational current motor load switch690 V [le] 20 A

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

< 10⁻⁵,< 1 failure in 100,000 switching operations H₌

Terminal capacities

Solid or stranded

1 x (1,5 - 10)

2 x (1,5 - 10) mm²

Flexible with ferrules to DIN 46228

1 x (1 - 4)

2 x (1 - 4) mm²

Terminal screw

Tightening torque for terminal screw

1.6 Nm

Rating data for approved types

Terminal capacity Flexible

14.13 AWG

Terminal capacity Terminal screw

Terminal capacity Tightening torque

14.13 lb-in

Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipation [In]

40 A

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

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Bectric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as main switch

No

Version as maintenance-/service switch

Version as safety switch

Version as emergency stop installation

Version as reversing switch

Number of switches

Max. rated operation voltage Ue AC

690 V

Rated operating voltage

690 - 690 V

Rated permanent current lu

Rated permanent current at AC-23, 400 V

40 A

Rated permanent current at AC-21, 400 V

Rated operation power at AC-3, 400 V

15 kW

Rated short-time withstand current lcw

0.64 kA

Rated operation power at AC-23, 400 V

22 kW

Switching power at 400 V

22 kW

Conditioned rated short-circuit current lq

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

Complete device in housing

Suitable for floor mounting

Suitable for front mounting 4-hole

Suitable for front mounting centre

Suitable for distribution board installation

Suitable for intermediate mounting

Colour control element

Black

Type of control element Short thumb-grip Interlockable Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side Degree of protection (NEVA)

Wiring diagram



Line drawing

On-Off switches without auxiliary contacts

Symbol



Graphic

Rotary switches, surface mounting



FS 908

115K001

Graphic

FS908 standard front plate

Brochure

P1-40 Switch-disconnectors brochure (SA042012-EN)

P1-40 Switch-disconnectors brochure

https://www.eaton.com/content/dam/eaton/products/industrialcontrols-drives-automation-sensors/switch-disconnectors-and-cam-switches/t-rotarycam-sw itches-and-p-sw itch-disconnectors/p1-40-sw itch-disconnectors/eaton-p1-40-sw itch-disconnectors-flyer-sa042012EN-en-us.pdf (PDF)

Catalog

• P1-40 Switch-disconnectors (CA042002-EN)

P1-40 Switch-disconnectors

https://www.eaton.com/content/dam/eaton/products/industrialcontrols-drives-automation-sensors/switch-disconnectors-and-cam-switches/t-rotarycam-sw itches-and-p-sw itch-disconnectors/p1-40-sw itch-disconnectors/eaton-p1-40-sw itch-disconnectors-catalogue-ca042002en-en-us.pdf (PDF)

Product photo



199908 C

Photo

P1-40 main switch

(Web)



199908_R Photo P1-40 main switch (Web)



Y7-199908_L

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