



199931
P1-40/IVS

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as
per IEC/EN 61439

Technical data ETIM8.0

DELIVERY PROGRAM

Product range
On-Off switch

Part group reference
P1

with black thumb grip and front plate

Information about equipment supplied
Auxiliary contact or neutral conductor fitted by
user.

Number of poles
3 pole

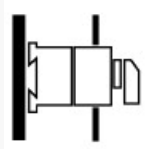
Auxiliary contacts


0 NO

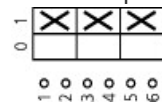
7
0 NC

Degree of Protection
Front IP30

Design
service distribution board mounting

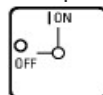


Contact sequence



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_u]
40 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, 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

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

Mechanical variables

Auxiliary contacts



0 NO

Mechanical variables

Auxiliary contacts



0 NC

Electrical characteristics
Rated operational voltage [U_e]
690 V AC

Electrical characteristics
Rated uninterrupted current [I_u]
40 A

Electrical characteristics
Note on rated uninterrupted current I_u
Rated uninterrupted current I_u is specified for max.
cross-section.

Short-circuit rating
Fuse
50 A gG/gL

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

Note on rated short-time withstand current I_{cw}
Current for a time of 1 second

Switching capacity

Safe isolation to EN61140
between the contacts
440 V AC

Safe isolation to EN61140
Current heat loss per contact at I_e
3.5 W

Lifespan, mechanical [Operations]
> 0.3 x 10⁶

Maximum operating frequency [Operations/h]
1200

AC
AC-3
Rating, motor load switch [P]
220 V 230 V [P]
7.5 kW

AC
AC-3
Rating, motor load switch [P]
400 V 415 V [P]
15 kW

AC
AC-3
Rating, motor load switch [P]
690 V [P]
15 kW

AC
AC-3
Rated operational current motor load switch
230 V [I_e]
30 A

AC
AC-3
Rated operational current motor load switch
400V 415 V [I_e]
30 A

AC
AC-3
Rated operational current motor load switch
690 V [I_e]
17 A

AC
AC-21A
Rated operational current switch
400 V 415 V [I_e]
40 A

AC
AC-21A
Rated operational current switch
500 V [I_e]
40 A

AC
AC-21A
Rated operational current switch
690 V [I_e]
40 A

AC
AC-22A
Rated operational current switch
400 V 415 V [I_e]

40 A

AC
AC-22A
Rated operational current switch
500 V [I_e]
40 A

AC
AC-22A
Rated operational current switch
690 V [I_e]
40 A

AC
AC-23A
Motor rating AC-23A, 50 - 60 Hz [P]
230 V [P]
11 kW

AC
AC-23A
Motor rating AC-23A, 50 - 60 Hz [P]
400 V 415 V [P]
22 kW

AC
AC-23A
Motor rating AC-23A, 50 - 60 Hz [P]
690 V [P]
17 kW

AC
AC-23A
Rated operational current motor load switch
230 V [I_e]
40 A

AC
AC-23A
Rated operational current motor load switch
400 V 415 V [I_e]
40 A

AC
AC-23A
Rated operational current motor load switch
690 V [I_e]
20 A

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 (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
M4

Tightening torque for terminal screw
1.6 Nm

Rating data for approved types

Terminal capacity
Solid or flexible conductor with ferrule
14 - 8 AWG

Terminal capacity
Terminal screw
M4

Terminal capacity
Tightening torque
14.1 lb-in

DESIGN VERIFICATION AS PER IEC/EN 61439

Rated operational current for specified heat
dissipation [I_n]
40 A

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

TECHNICAL DATA ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EO000216)

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
No

Version as maintenance-/service switch
No

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_e AC
690 V

Rated operating voltage
690 - 690 V

Rated permanent current I_u
40 A

Rated permanent current at AC-23, 400 V
40 A

Rated permanent current at AC-21, 400 V
40 A

Rated operation power at AC-3, 400 V
15 kW

Rated short-time withstand current I_{cw}
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 I_q
80 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 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
Short thumb-grip

Interlockable
No

Type of electrical connection of main circuit
Screw connection

Degree of protection (IP), front side
IP30

Degree of protection (NEMA)



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