



P1-40/E/N

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Design verification as per IEC/EN 61439

per IEC/EN 61439

Technical data ETIM 8.0

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

) 0 NO 7 0 NC Degree of Protection Front IP65 Design flush 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 [lu] 40 A Note on rated uninterrupted current !u Rated uninterrupted current I_{u} is specified for max. cross-section.

TECHNICAL DATA

General

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Standards
IEC/EN 60947, IEC/EN 60204
Switch-disconnector according to IEC/EN 60947-3
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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_{mp}] 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}{1} 0 NO

Mechanical variables
Auxiliary contacts
7
0 N/C

Bectrical characteristics Rated operational voltage [U_e] 690 V AC

Bectrical characteristics
Rated uninterrupted current [I_u]
40 A

Bectrical characteristics Note on rated uninterrupted current l_u Rated uninterrupted current l_u is specified for max. cross-section.

Short-circuit rating Fuse 50 A gG/gL

Rated short-time withstand current (1 s current) $[l_{\text{cw}}]$ 640 A_{rms}

Note on rated short-time withstand current lcw Current for a time of 1 second

Switching capacity

Safe isolation to EN 61140 between the contacts 440 V AC

Safe isolation to $\rm EN\,61140$ Current heat loss per contact at $\rm l_{\rm e}$ $\rm 3.5\,W$

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 [l_{e}] 30 A

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

AC AC-3 Rated operational current motor load switch 690 V [l_{e}] 17 A

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

AC AC-21A Rated operational current switch 500 V $[L_0]$ 40 A

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

AC AC-22A Rated operational current switch 400 V 415 V [La] 40 A AC
AC-22A
Rated operational current switch
500 V [La]
40 A

AC AC-22A Rated operational current switch 690 V [La] 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 [$_{\rm b}$] 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]



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

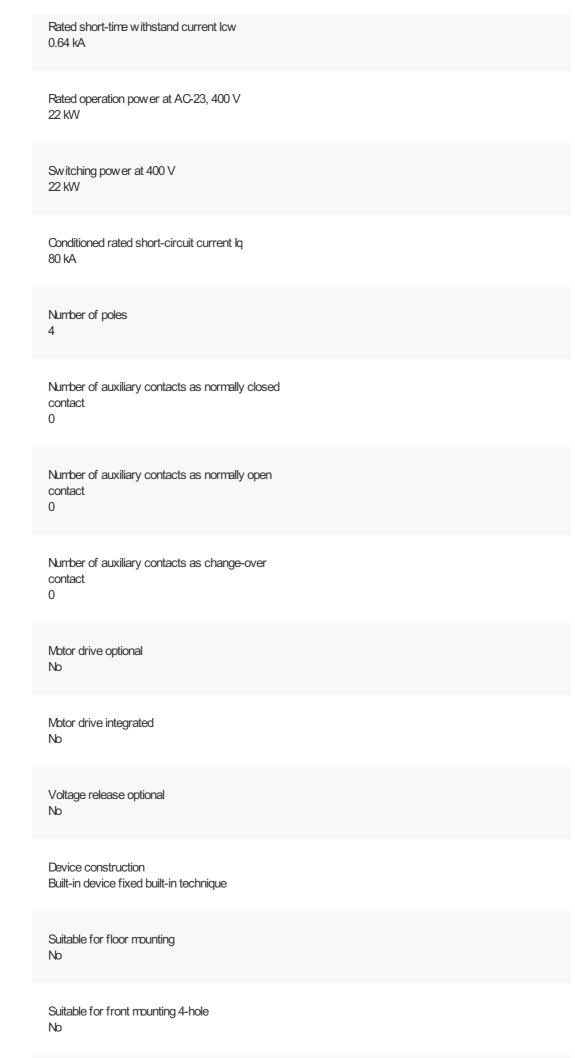
Heat dissipation per pole, current-dependent $[P_{id}] \ 1.9 \ W$

TECHNICAL DATA ETIM 8.0

Low-voltage industrial components (EG000017) / Switch 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 No 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 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



| 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 IP65 |
| Degree of protection (NEVA) |







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