



P1-40/Z

Overview

Specifications

Resources







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 or neutral conductor fitted by user.

Number of poles 3 pole

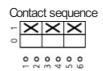
Auxiliary contacts

\\ 0 N/O 7

Degree of Protection Front IP65

Design rear mounting





Switching angle

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

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Standards
IEC/EN 60947, IEC/EN 60204
Switch-disconnector according to IEC/EN 60947-3
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Olimatic 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

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

Electrical 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_{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 EN 61140 Ourrent heat loss per contact at $l_{\rm e}$ $3.5\,{\rm W}$

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 [I_{e}] 30 A

AC AC-3 Rated operational current motor load switch 690 V [$_{\rm e}$] 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 [La] 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 [I_e] AC AC-22A Rated operational current switch 500 V [Le] 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 [l_0] 40 A

AC
AC-23A
Rated operational current motor load switch
400 V 415 V [l_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

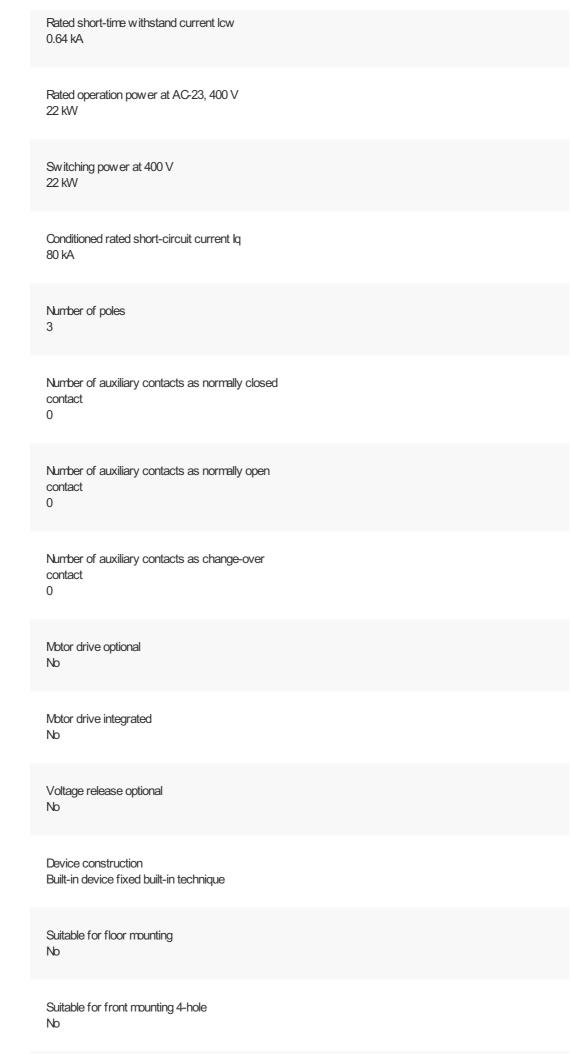
Heat dissipation per pole, current-dependent $[P_{id}]$ 1.9 W

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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