

Verview Specific	cations Resources
Delivery program	DELIVERY PROGRAM
Technical data	Product range On-Off switch
Design verification as per IEC/EN 61439	Part group reference P1
Technical data ETIM 8.0	with black thumb grip and front plate
	Number of poles 3 pole
	Auxiliary contacts
	1 NO
	7 1 №C

Degree of Protection IP65

Design surface mounting



Contact sequence

Switching angle 90 °

Front plate	e no.
OFF-O	
$\square$	J
FS 908	

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

400 V [P] 22 kW

Rated uninterrupted current [l\_] 40 A

Note on rated uninterrupted current  $l_{\rm u}$  Rated uninterrupted current  $l_{\rm u}$  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 Enclosed -25 - +40 °C

Overvoltage category/pollution degree III/3

Rated impulse withstand voltage  $[\mathrm{U}_{\mathrm{imp}}]$  6000 V AC

Mechanical shock resistance 15 g

Mounting position As required

## Contacts

Mechanical variables Number of poles 3 pole

Mechanical variables Auxiliary contacts \ 1 NO

Mechanical variables Auxiliary contacts 7 1 N/C

Electrical characteristics Rated operational voltage [Ue] 690 V AC

Electrical characteristics Rated uninterrupted current [I\_j] 40 A

Electrical 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)  $[l_{\rm cw}]$  640  $A_{\rm rms}$ 

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

## Switching capacity

Safe isolation to EN 61140 between the contacts 440 V AC

Safe isolation to EN 61140 Current heat loss per contact at  ${\sf I}_{\sf e}$  3.5 W

Lifespan, mechanical [Operations]  $> 0.3 \times 10^6$ 

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 [le] 30 A

## AC

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

## AC

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

## AC

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

## AC

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

## AC

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

#### AC

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

## 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 [le] 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 [la] 20 A

Control circuit reliability at 24 V DC, 10 mA [Fault probability]  $< 10^{-5}$ , < 1 failure in 100,000 switching operations H<sub>2</sub>

## **Terminal capacities**

Solid or stranded 1 x (1,5 - 10) 2 x (1,5 - 10) mm<sup>2</sup>

Flexible with ferrules to DIN 46228 1 x (1 - 4) 2 x (1 - 4) mm<sup>2</sup>

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 Flexible 14.1 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 [In] 40 A

Heat dissipation per pole, current-dependent [Pvid] 3.5 W

# **TECHNICAL DATA ETIM 8.0**

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216) 7/11

Electric 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 No

Version as emergency stop installation No

Version as reversing switch No

Number of switches 1

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

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 80 kA

Number of poles 3

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 Complete device in housing

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 IP65

Degree of protection (NEVA)



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