



199944 P1-40/SE1

Overview

Specifications

Resources









DELIVERY PROGRAM

Delivery program

Technical data

Design verification as per IEC/EN 61439

Technical data ETIM 8.0

Product range On-Off switch

Part group reference

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



Degree of Protection IP65

Design surface mounting



Contact sequence



Switching angle 90 $^{\circ}$

Front plate no.



FS 908

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

400 V [P] 22 kW

Rated uninterrupted current $\left[I_{u}\right]$ 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 Enclosed -25 - +40 °C

Overvoltage category/pollution degree IIV3

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 Bectrical characteristics
Rated uninterrupted current [I,]
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 BN 61140 Current heat loss per contact at $\rm l_e$ $3.5~\rm W$

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 [I_e]
30 A

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

AC AC-3 Rated operational current motor load switch 690 V [$_{\rm b}$] 17 A

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

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

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

AC AC-23A Rated operational current motor load switch 690 V [I_0] 20 A

Control circuit reliability at 24 V DC, 10 mA [Fault probability] $$<10^{-5},<1$$ failure in 100,000 sw itching 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 $1 \times (1 - 4)$ $2 \times (1 - 4)$ mr^2

Terminal screw M4

Tightening torque for terminal screw 1.6 Nm

Rating data for approved types

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 $\left[I_{n}\right]$ 40 A

Heat dissipation per pole, current-dependent $[P_{id}] \ 3.5 \ W$

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])

Ve No	ersion as main switch
Ve Ye	ersion as maintenance-/service switch es
Ve No	ersion as safety switch
Ve No	ersion as emergency stop installation
Ve No	ersion as reversing switch
Nu 1	imber of switches
	ax. rated operation voltage Ue AC 0 V
	tted operating voltage 0 - 690 V
Ra 40	ited permanent current lu A
Ra 40	ted permanent current at AC-23, 400 V A
Ra 40	ted permanent current at AC-21, 400 V A
	ted operation power at AC-3, 400 V kW
	ited short-time withstand current Icw 64 kA
	ted operation power at AC-23, 400 V kW
Sw	vitching power at 400 V

22 kW Conditioned rated short-circuit current lq 80 kA Number of poles 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 Voltage release optional No Device construction Built-in device fixed built-in technique

Suitable for floor mounting No

Suitable for front mounting 4-hole

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 (NEMA)







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