



Overview

Specifications

Resources







Delivery program

Technical data

Design verification as

per IEC/EN 61439

Technical data ETIM 8.0

DELIVERY PROGRAM

Product range Main switch maintenance switch

Part group reference

Stop Function

Emergency switching off function

With red rotary handle and yellow locking ring

Information about equipment supplied auxiliary contact fitted by user.

Number of poles 3 pole + N

Auxiliary contacts



7 ONC

Locking facility
Lockable in the 0 (Off) position

Degree of Protection Front IP65

Design rear mounting



Contact sequence

Switching angle 90 $^{\circ}$

Function



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 \mathbf{l}_{u} Rated uninterrupted current \mathbf{l}_{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_{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 , 0 NO Mechanical variables Auxiliary contacts 7 0 NC

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 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 [$I_{\rm e}$] 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 [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 [L_0] 40 A

AC AC-22A Rated operational current switch 400 V 415 V [[_e] 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 [la] 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 Control circuit reliability at 24 V DC, 10 mA [Fault probability] $$<10^{-5},<1$$ failure in 100,000 switching operations H=

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

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 Yes Version as maintenance-/service switch Yes Version as safety switch No Version as emergency stop installation Yes 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 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 Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No Voltage release optional No Device construction

Built-in device fixed built-in technique

Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation No Suitable for intermediate mounting Colour control element Red Type of control element Door coupling rotary drive Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65 Degree of protection (NEVA)







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