



Overview

Specifications

Resources









DELIVERY PROGRAM

Technical data

Product range Main switch maintenance switch Repair switch

Design verification as per IEC/EN 61439

Part group reference T5B

Technical data ETIM7.0

Stop Function

Emergency switching off function

Approvals

With red rotary handle and yellow locking ring

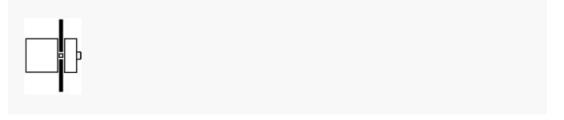
Dimensions

Number of poles 6 pole

Locking facility

Lockable in the 0 (Off) position

Degree of Protection Front IP65 Design flush mounting



Contact sequence

Switching angle 90 $^{\circ}$

Design number 8342



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

400 V [P] 30 kW

Rated uninterrupted current $\left[I_{u}\right]$ 63 A

Note on rated uninterrupted current I_u Rated uninterrupted current I_u is specified for max. cross-section.

Number of contact units 3 contact unit(s)

TECHNICAL DATA

General

Standards
IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL
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 6 pole

Electrical characteristics Rated operational voltage [U_e] 690 V AC

Bectrical characteristics
Rated uninterrupted current [I_u]
63 A

 $\label{eq:local_local} \mbox{ Bectrical characteristics } \mbox{ Note on rated uninterrupted current l_u is specified for max. } \\$

cross-section.

Load rating with intermittent operation, class 12 AB 25 % DF $_{\rm 2\,X\,I_{\rm e}}$

Load rating with intermittent operation, class 12 AB 40 % DF 1.6 x $I_{\rm e}$

Load rating with intermittent operation, class 12 AB 60 % DF 1.3 x $I_{\rm e}$

Short-circuit rating Fuse 80 A gG/gL

Rated short-time withstand current (1 s current) $[I_{\text{cw}}]$ 1300 A_{rms}

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

Rated conditional short-circuit current $[\mathsf{I}_q]$ 2 kA

Switching capacity

 $\cos\phi$ rated making capacity as per IEC 60947-3 800 A

Rated breaking capacity cos φ to IEC 60947-3 230 V 520 A

Rated breaking capacity cos φ to IEC 60947-3 400/415 V 600 A

Rated breaking capacity cos φ to IEC 60947-3 500 V 480 A

Rated breaking capacity cos φ to IEC 60947-3

690 V 340 A

Safe isolation to EN 61140 between the contacts 440 V AC

Safe isolation to BN 61140 Ourrent heat loss per contact at $\rm l_e$ $4.5~\rm W$

Safe isolation to EN 61140 Ourrent heat loss per auxiliary circuit at $\rm l_e$ (AC-15/230 V) $\rm 4.5~CO$

Lifespan, mechanical [Operations] > 0.5 x 10⁶

Maximum operating frequency [Operations/h] 1200

AC AC-3 Rating, motor load switch [P] 220 V 230 V [P] 15 kW

AC AC-3 Rating, motor load switch [P] 230 V Star-delta [P] 18.5 kW

AC AC-3 Rating, motor load switch [P] 400 V 415 V [P] 22 kW

AC AC-3 Rating, motor load switch [P] 400 V Star-delta [P] 30 kW

AC AC-3 Rating, motor load switch [P] 500 V [P] AC
AC-3
Rating, motor load switch [P]
500 V Star-delta [P]
37 kW

AC AC-3 Rating, motor load switch [P] 690 V [P] 15 kW

AC AC-3 Rating, motor load switch [P] 690 V Star-delta [P] 22 kW

AC
AC-3
Rated operational current motor load switch
230 V [I_e]
51 A

AC
AC-3
Rated operational current motor load switch
230 V star-delta [l_e]
63 A

AC AC-3 Rated operational current motor load switch 400V 415 V [l_e] 41 A

AC
AC-3
Rated operational current motor load switch
400 V star-delta [l_e]
63 A

AC AC-3 Rated operational current motor load switch 500 V [le] 33 A

AC AC-3 Rated operational current motor load switch 500 V star-delta [I $_{\rm e}$] 57.2 A

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

AC
AC-3
Rated operational current motor load switch
690 V star-delta [I_e]
29.4 A

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 230 V [P] 18.5 kW

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 400 V 415 V [P] 30 kW

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 500 V [P] 22 kW

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 690 V [P] 22 kW

AC
AC-23A
Rated operational current motor load switch
230 V [la]
63 A

AC AC-23A Rated operational current motor load switch 400 V 415 V [[,] 63 A AC AC-23A Rated operational current motor load switch 500 V [l_e] 33 A AC AC-23A Rated operational current motor load switch 690 V [l_e] 23.8 A DCDC-1, Load-break switches L/R=1 ms Rated operational current [le] 63 A DC DC-1, Load-break switches L/R=1 ms Voltage per contact pair in series 60 V DC DC-23A, motor load switch L/R = 15 ms 24 V Rated operational current [le] 50 A DC DC-23A, motor load switch L/R = 15 ms 24 V Contacts 1 Quantity DC DC-23A, motor load switch L/R = 15 ms 48 V Rated operational current [le] 50 A DC DC-23A, motor load switch L/R = 15 ms 48 V Contacts 2 Quantity

DC

DC-23A, motor load switch L/R = 15 ms

60 V

Rated operational current [le]

50 A

DC DC-23A, motor load switch L/R = 15 ms 60 V Contacts 3 Quantity

DC
DC-23A, motor load switch L/R = 15 ms
120 V
Rated operational current [l_e]
25 A

DC
DC-23A, motor load switch L/R = 15 ms
120 V
Contacts
3 Quantity

DC DC-23A, motor load switch L/R = 15 ms 240 V Rated operational current [I_e] 20 A

DC DC-23A, motor load switch L/R = 15 ms 240 V Contacts 6 Quantity

DC-13, Control switches L/R = 50 ms Rated operational current [l_e] 25 A

DC DC-13, Control switches L/R = 50 ms Voltage per contact pair in series 24 V

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 (2,5 - 35) 2 x (2,5 - 16) mm² Flexible with ferrules to DIN 46228 1 x (1 - 25) 2 x (1.5 - 10) mm²

Terminal screw

Tightening torque for terminal screw 4 Nm

Technical safety parameters:

Notes

B10_d values as per EN ISO 13849-1, table C1

Rating data for approved types

Contacts
Rated operational voltage [U_e]
600 V AC

Contacts
Rated uninterrupted current max.
Main conducting paths
General use
63 A

Switching capacity Maximum motor rating Single-phase 120 V AC 3 HP

Switching capacity Maximum motor rating Single-phase 200 V AC 7.5 HP

Switching capacity
Maximum motor rating
Single-phase
240 V AC
10 HP

Switching capacity Maximum motor rating Three-phase 200 V AC 15 HP Switching capacity Maximum motor rating Three-phase 240 V AC 15 HP Switching capacity Maximum motor rating Three-phase 480 V AC 40 HP Switching capacity Maximum motor rating Three-phase 600 V AC 40 HP Short Circuit Current Rating High fault rating 10 kA Short Circuit Current Rating max. Fuse 100, Class JA Terminal capacity Solid or flexible conductor with ferrule 12 - 4 AWG Terminal capacity Terminal screw M6

Terminal capacity Tightening torque 35.4 lb-in

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

dissipation [l_n] 63 A

Heat dissipation per pole, current-dependent $[P_{id}] \ 4.5 \ W$

Equipment heat dissipation, current-dependent $[P_{\text{vid}}]$ 0 W

Static heat dissipation, non-current-dependent $[P_{\!\scriptscriptstyle V\!S}]$ 0 W

Heat dissipation capacity $[P_{\text{diss}}]$ 0 W

Operating ambient temperature min. -25 $^{\circ}\text{C}$

Operating ambient temperature max. +50 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatWeets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.3 Verification of resistance of insulating
materials to abnormal heat and fire due to internal
electric effects
Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiationUV resistance only in connection with protective

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES

Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances Meets the product standard's requirements.

10.5 Protection against electric shock
Does not apply, since the entire switchgear needs
to be evaluated.

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections Is the panel builder's responsibility.

10.8 Connections for external conductors Is the panel builder's responsibility.

10.9 Insulation properties 10.9.2 Power-frequency electric strength Is the panel builder's responsibility.

10.9 Insulation properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9.4 Testing of enclosures made of insulating material ls the panel builder's responsibility.

10.10 Temperature rise
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 Mechanical function
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

TECHNICAL DATA ETIM 7.0

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

No
Number of switches 1
Max. rated operation voltage Ue AC 690 V
Rated operating voltage 690 - 690 V
Rated permanent current lu 63 A
Rated permanent current at AC-23, 400 V 63 A
Rated permanent current at AC-21, 400 V 63 A
Rated operation power at AC-3, 400 V 22 kW
Rated short-time withstand current lcw 1.3 kA
Rated operation power at AC-23, 400 V 30 kW
Switching power at 400 V 30 kW
Conditioned rated short-circuit current lq 2 kA
Number of poles 6
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 0	
Motor drive optional No	
Motor drive integrated No	
Voltage release optional No	
Device construction Built-in device fixed built-in technique	
Suitable for ground mounting No	
Suitable for front mounting 4-hole No	
Suitable for front mounting centre Yes	
Suitable for distribution board installation No	
Suitable for intermediate mounting No	
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)

APPROVALS

Product Standards
UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14;
CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking

UL File No. E36332

UL Category Control No. NLRV

CSA File No. 12528

CSA Class No. 3211-05

North America Certification UL listed, CSA certified

Suitable for Branch circuits, suitable as motor disconnect

Degree of Protection IEC: IP65; UL/CSA Type 1, 12

DIMENSIONS



□ ZFS Label mount not included as standard □ Drilling dimensions door Camswitches T5B and T5 are same size, only their contacts are different
□ 3 padlocks







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