



**207208**  
**T3-3-8342/I2/SVB**

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

## DELIVERY PROGRAM

Product range  
 Main switch  
 maintenance switch  
 Repair switch

Part group reference  
 T3

Stop Function  
 Emergency switching off function

With red rotary handle and yellow locking ring

Number of poles  
 6 pole

Locking facility  
 Lockable in the 0 (Off) position

Degree of Protection  
 IP65

**totally Insulated**

Design  
surface mounting

Contact sequence

Switching angle  
90 °

Design number  
8342

Function

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

400 V [P]  
15 kW

Rated uninterrupted current [ $I_u$ ]  
32 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

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 [ $U_{imp}$ ]  
6000 V AC

Mechanical shock resistance  
12 g

Mounting position  
As required

## Contacts

Mechanical variables  
Number of poles  
6 pole

Electrical characteristics  
Rated operational voltage [ $U_e$ ]  
690 V AC

Electrical characteristics  
Rated uninterrupted current [ $I_u$ ]  
32 A

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

Load rating with intermittent operation, class 12  
AB 25 % DF  
 $2 \times I_e$

Load rating with intermittent operation, class 12  
AB 40 % DF  
 $1.6 \times I_e$

Load rating with intermittent operation, class 12  
AB 60 % DF  
 $1.3 \times I_e$

Short-circuit rating  
Fuse  
35 A gG/gL

Rated short-time withstand current (1 s current)  
 $[I_{cw}]$   
 $650 A_{rms}$

Note on rated short-time withstand current  $I_{cw}$   
Current for a time of 1 second

Rated conditional short-circuit current  $[I_q]$   
1 kA

## Switching capacity

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

Rated breaking capacity  $\cos \phi$  to IEC 60947-3  
230 V  
260 A

Rated breaking capacity  $\cos \phi$  to IEC 60947-3  
400/415 V  
260 A

Rated breaking capacity  $\cos \phi$  to IEC 60947-3  
500 V  
240 A

Rated breaking capacity  $\cos \phi$  to IEC 60947-3  
690 V  
170 A

Safe isolation to EN 61140  
between the contacts  
440 V AC

Safe isolation to EN61140  
Current heat loss per contact at  $I_e$   
1.1 W

Safe isolation to EN61140  
Current heat loss per auxiliary circuit at  $I_e$  (AC-  
15/230 V)  
1.1 W

Lifespan, mechanical [Operations]  
> 0.5 x 10<sup>6</sup>

Maximum operating frequency [Operations/h]  
1200

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

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

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

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

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

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

AC  
AC-3  
Rating, motor load switch [F]  
690 V [F]  
11 kW

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

AC  
AC-3  
Rated operational current motor load switch  
230 V [I<sub>e</sub>]  
23.7 A

AC  
AC-3  
Rated operational current motor load switch  
230 V star-delta [I<sub>e</sub>]  
32 A

AC  
AC-3  
Rated operational current motor load switch  
400V 415 V [I<sub>e</sub>]  
23.7 A

AC  
AC-3  
Rated operational current motor load switch  
400 V star-delta [I<sub>e</sub>]  
32 A

AC  
AC-3  
Rated operational current motor load switch  
500 V [I<sub>e</sub>]  
23.7 A

AC  
AC-3  
Rated operational current motor load switch  
500 V star-delta [I<sub>e</sub>]  
32 A

AC  
AC-3  
Rated operational current motor load switch

690 V [I<sub>e</sub>]  
14.7 A

AC  
AC-3  
Rated operational current motor load switch  
690 V star-delta [I<sub>e</sub>]  
25.5 A

AC  
AC-23A  
MOTOR rating AC-23A, 50 - 60 Hz [P]  
230 V [P]  
7.5 kW

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

AC  
AC-23A  
MOTOR rating AC-23A, 50 - 60 Hz [P]  
500 V [P]  
15 kW

AC  
AC-23A  
MOTOR rating AC-23A, 50 - 60 Hz [P]  
690 V [P]  
15 kW

AC  
AC-23A  
Rated operational current motor load switch  
230 V [I<sub>e</sub>]  
32 A

AC  
AC-23A  
Rated operational current motor load switch  
400 V 415 V [I<sub>e</sub>]  
32 A

AC  
AC-23A  
Rated operational current motor load switch  
500 V [I<sub>e</sub>]  
26.4 A

AC

AC-23A  
Rated operational current motor load switch  
690 V [ $I_e$ ]  
17 A

DC  
DC-1, Load-break switches L/R = 1 ms  
Rated operational current [ $I_e$ ]  
25 A

DC  
DC-1, Load-break switches L/R = 1 ms  
Voltage per contact pair in series  
60 V

DC  
DC-21A [ $I_e$ ]  
Rated operational current [ $I_e$ ]  
1 A

DC  
DC-21A [ $I_e$ ]  
Contacts  
1 Quantity

DC  
DC-23A, motor load switch L/R = 15 ms  
24 V  
Rated operational current [ $I_e$ ]  
25 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 [ $I_e$ ]  
25 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 [ $I_{\text{e}}$ ]  
25 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 [ $I_{\text{e}}$ ]  
12 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 [ $I_{\text{e}}$ ]  
5 A

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

DC  
DC-13, Control switches L/R = 50 ms  
Rated operational current [ $I_{\text{e}}$ ]  
20 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 (1 - 6)  
2 x (1 - 6) mm<sup>2</sup>

Flexible with ferrules to DIN 46228  
1 x (0.75 - 4)  
2 x (0.75 - 4) mm<sup>2</sup>

Terminal screw  
M4

Tightening torque for terminal screw  
1.6 Nm

### Technical safety parameters:

#### Notes

B10<sub>d</sub> values as per EN ISO 13849-1, table C1

### Rating data for approved types

Terminal capacity  
Terminal screw  
M4

Terminal capacity  
Tightening torque  
17.7 lb-in

## DESIGN VERIFICATION AS PER IEC/EN 61439

### Technical data for design verification

Rated operational current for specified heat  
dissipation [I<sub>r</sub>]  
32 A

Heat dissipation per pole, current-dependent [P<sub>id</sub>]  
1.1 W

Equipment heat dissipation, current-dependent  
[P<sub>id</sub>]

0 W

Static heat dissipation, non-current-dependent [ $P_{vs}$ ]  
0 W

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

Operating ambient temperature min.  
-25 °C

Operating ambient temperature max.  
+40 °C

### IEC/EN 61439 design verification

10.2 Strength of materials and parts  
10.2.2 Corrosion resistance  
Meets 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 parts  
10.2.3.2 Verification of resistance of insulating materials to normal heat  
Meets 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 parts  
10.2.4 Resistance to ultra-violet (UV) radiation  
UV resistance only in connection with protective shield.

10.2 Strength of materials and parts  
10.2.5 Lifting  
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts

#### 10.2.6 Mechanical impact

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

#### 10.2 Strength of materials and parts

##### 10.2.7 Inscriptions

Meets the product standard's requirements.

#### 10.3 Degree of protection of ASSEMBLIES

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 properties

##### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### 10.9 Insulation properties

##### 10.9.4 Testing of enclosures made of insulating material

Is 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 disconnecter (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as main switch  
Yes

Version as maintenance-/service switch  
Yes

Version as safety switch  
Yes

Version as emergency stop installation  
Yes

Version as reversing switch  
No

Number of switches  
1

Max. rated operation voltage  $U_e$  AC  
690 V

Rated operating voltage  
690 - 690 V

Rated permanent current  $I_u$   
32 A

Rated permanent current at AC-23, 400 V  
32 A

Rated permanent current at AC-21, 400 V  
32 A

Rated operation power at AC-3, 400 V  
11 kW

Rated short-time withstand current  $I_{cw}$   
0.65 kA

Rated operation power at AC-23, 400 V  
15 kW

Switching power at 400 V  
15 kW

Conditioned rated short-circuit current  $I_q$   
1 kA

Number of poles  
6

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  
No

Voltage release optional  
No

Device construction  
Complete device in housing

Suitable for ground mounting  
Yes

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  
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 (NEMA)  
12

# 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

Specially designed for North America  
Yes, additional labeling according to UL on the enclosure in combination with "+NA-I2" (105866)

Suitable for  
Branch circuits, suitable as motor disconnect

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

# DIMENSIONS



Drilling dimensions base





□ 3 padlocks

