



207320 P1-32/I2

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Product range On-Off switch

Design verification as

Part group reference

per IEC/EN 61439

with black thumb grip and front plate

Technical data ETIM 7.0

Information about equipment supplied Auxiliary contact or neutral conductor fitted by user.

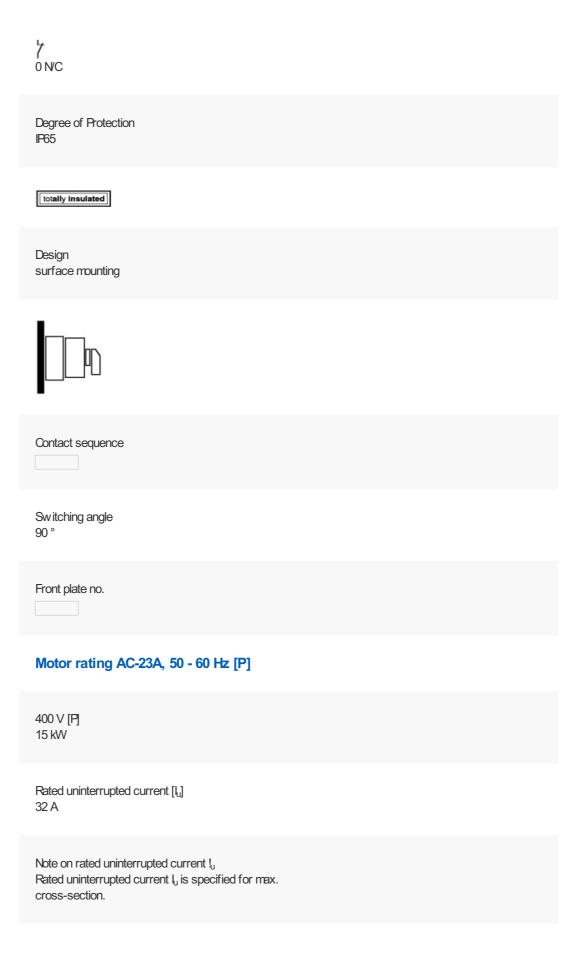
Approvals

Number of poles 3 pole

Dimensions

Auxiliary contacts

\\ 0 NO



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 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

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 $\left[I_{u}\right]$ 32 A

Bectrical characteristics Note on rated uninterrupted current l_u 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 $l_{\rm e}$

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

Rated conditional short-circuit current $[l_q]$ 80 kA

Switching capacity

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

Rated breaking capacity cos φ to IEC 60947-3 230 V 260 A

Rated breaking capacity cos φ to IEC 60947-3 400/415 V 300 A

Rated breaking capacity $\cos \phi$ to IEC 60947-3 290 A Rated breaking capacity $\cos \phi$ to IEC 60947-3 690 V 250 A Safe isolation to EN 61140 between the contacts 440 V AC Safe isolation to EN 61140 Current heat loss per contact at $l_{\rm e}$ 1.8 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] 13 kW AC AC-3 Rating, motor load switch [P] 500 V [P] 18.5 kW AC AC-3 Rating, motor load switch [P] 690 V [P] 15 kW

Rated operational current motor load switch

AC AC-3 230 V [l_e] 26.4 A

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

AC AC-3 Rated operational current motor load switch 500 V [$_{\rm e}$] 23.4 A

AC AC-3 Rated operational current motor load switch 690 V [la] 14.7 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] 18.5 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 [l_e] 32 A

AC-23A Rated operational current motor load switch 400 V 415 V [L] 32 A

AC
AC-23A
Rated operational current motor load switch
500 V [l_e]
30 A

AC AC-23A Rated operational current motor load switch 690 V [l_e] 19.8 A

DC
DC-1, Load-break switches L/R=1 ms
Rated operational current [l_e]
32 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 [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 [le] 25 A DC DC-23A, motor load switch L/R = 15 ms 60 V Contacts 2 Quantity DCDC-23A, motor load switch L/R = 15 ms 120 V Rated operational current [le] 12 A DC DC-23A, motor load switch L/R = 15 ms 120 V Contacts 3 Quantity Control circuit reliability at 24 V DC, 10 mA [Fault probability] < 10⁻⁵,< 1 failure in 100,000 switching operations Ηŧ **Terminal capacities** Solid or stranded 1 x (1,5 - 6) 2 x (1,5 - 6) 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

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
30 A

Contacts
Rated uninterrupted current max.
Auxiliary contacts
General Use [I_U]
10 A

Contacts
Rated uninterrupted current max.
Auxiliary contacts
Pllot Duty
A 600
P600

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

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

Switching capacity Maximum motor rating Single-phase 240 V AC 3 HP

Switching capacity Maximum motor rating Three-phase 200 V AC Switching capacity Maximum motor rating Three-phase 240 V AC 7.5 HP

Switching capacity Maximum motor rating Three-phase 480 V AC 10 HP

Switching capacity
Maximum motor rating
Three-phase
600 V AC
15 HP

Short Circuit Current Rating Basic Rating 5 kA

Short Circuit Current Rating max. Fuse 110 A

Short Circuit Current Rating High fault rating 10 kA

Short Circuit Current Rating max. Fuse 50, Class J A

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

Technical data for design verification

Rated operational current for specified heat dissipation [I_{n}] 32 A

Heat dissipation per pole, current-dependent $[P_{id}]$ 1.8 W

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

Static heat dissipation, non-current-dependent $[P_{\!\scriptscriptstyle V\!S}]$ 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 parts10.2.2 Corrosion resistanceWeets 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 parts10.2.3.3 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 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 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 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

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 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 13 kW
Rated short-time withstand current lcw 0.64 kA
Rated operation power at AC-23, 400 V 15 kW
Switching power at 400 V 15 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 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 Black
Type of control element Toggle

Interlockable
No

Type of electrical connection of main circuit
Screw connection

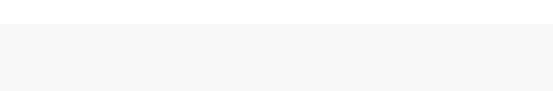
Degree of protection (IP), front side
IP65

Degree of protection (NEWA)
Other

APPROVALS

North America Certification For UL/CSA certification order article number 255890

DIMENSIONS









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