013388 T0-3-8007/XZ			
Overview	Specific	ations Resources	
Delivery program	\Box	DELIVERY PROGRAM	
Technical data Design verification as per IEC/EN 61439 Technical data ETIM7.0		Product range Control switches	
		Part group reference T0	
		Contacts 6	
		Design rear mounting Basic switch	
		Switching angle 45 °	

Design number

8007

Front plate no.

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

400 V [**P**] 5.5 kW

Rated uninterrupted current [I_u] 20 A

Note on rated uninterrupted current $l_{\rm u}$ Rated uninterrupted current $l_{\rm u}$ 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 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 $[U_{\text{imp}}]$ 6000 V AC

Mechanical shock resistance 15 g

Mounting position As required

Contacts

Electrical characteristics Rated operational voltage [U_e] 690 V AC

Electrical characteristics Rated uninterrupted current [I,] 20 A

Electrical 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 $_2\,x\,l_{e}$

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 20 A gG/gL

Rated short-time withstand current (1 s current) $[I_{\rm cw}]$ 320 $A_{\rm rms}$

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

Rated conditional short-circuit current $\left[I_q\right]$ 6 kA

Switching capacity

 $\cos\varphi$ rated making capacity as per IEC 60947-3 130 A

Rated breaking capacity cos φ to IEC 60947-3 230 V 100 A

Rated breaking capacity cos φ to IEC 60947-3 400/415 V 110 A

Rated breaking capacity cos ϕ to IEC 60947-3 500 V 80 A

Rated breaking capacity cos φ to IEC 60947-3 690 V 60 A

Safe isolation to EN 61140 between the contacts 440 V AC

Safe isolation to EN 61140 Ourrent heat loss per contact at $\rm I_{e}$ 0.6 W

Safe isolation to EN 61140 Ourrent heat loss per auxiliary circuit at Ie (AC-15/230 V) $0.6~{\rm CO}$

Lifespan, mechanical [Operations] $> 0.4 \times 10^{6}$

Maximum operating frequency [Operations/h] 1200

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

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

AC AC-3 Rating, motor load switch [P] 400 V 415 V [P] 5.5 kW

AC AC-3 Rating, motor load switch [P] 400 V Star-delta [P] 7.5 kW

AC AC-3 Rating, motor load switch [P] 500 V [P] 5.5 kW

AC AC-3 Rating, motor load switch [P] 500 V Star-delta [P] 7.5 kW

AC AC-3 Rating, motor load switch [P] 690 V [P] 4 kW

AC AC-3 Rating, motor load switch [P] 690 V Star-delta [P] 5.5 kW

AC AC-3 Rated operational current motor load switch 230 V [le] 11.5 A

AC

AC-3 Rated operational current motor load switch 230 V star-delta [le] 20 A

AC

AC-3 Rated operational current motor load switch 400V 415 V [le] 11.5 A

AC

AC-3 Rated operational current motor load switch 400 V star-delta [le] 20 A

AC

AC-3 Rated operational current motor load switch 500 V [I_e] 9 A

AC

AC-3 Rated operational current motor load switch 500 V star-delta [le] 15.6 A

AC

AC-3 Rated operational current motor load switch 690 V [le] 4.9 A

AC

AC-3 Rated operational current motor load switch 690 V star-delta [le] 8.5 A

AC

AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 230 V [P] 3 kW AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 400 V 415 V [P] 5.5 kW

AC

AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 500 V [P] 7.5 kW

AC

AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 690 V [P] 5.5 kW

AC

AC-23A Rated operational current motor load switch 230 V $[l_{\rm e}]$ 13.3 A

AC

AC-23A Rated operational current motor load switch 400 V 415 V [le] 13.3 A

AC

AC-23A Rated operational current motor load switch 500 V $[l_{\rm e}]$ 13.3 A

AC

AC-23A Rated operational current motor load switch 690 V [la] 7.6 A

DC

DC-1, Load-break switches L/R = 1 msRated operational current [le] 10 A

DC

DC-1, Load-break switches L/R = 1 ms Voltage per contact pair in series 60 V DC DC-21A [l_e] Rated operational current [l_e] 1 A

DC

DC-21A [l_e] Contacts 1 Quantity

DC

DC-23A, motor load switch L/R = 15 ms 24 V Rated operational current [l_e] 10 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] 10 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] 10 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 [le] 5 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 $[l_e]$ 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_e] 10 A

DC DC-13, Control switches L/R = 50 ms Voltage per contact pair in series 32 V

Control circuit reliability at 24 V DC, 10 mA [Fault probability] $< 10^{-5}$, < 1 failure in 100,000 switching operations H_F

Terminal capacities

Solid or stranded 1 x (1 - 2,5) 2 x (1 - 2,5) mm²

Hexible with ferrules to DIN 46228 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) mm²

Terminal screw M3.5

Tightening torque for terminal screw 1 Nm

Technical safety parameters:

Notes ${\rm B10}_{\rm d} \text{ values as per EN ISO 13849-1, table C1}$

Rating data for approved types

Terminal capacity Terminal screw MB.5

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation $[I_{\rm h}]$ 20 A

Heat dissipation per pole, current-dependent $\left[\mathsf{P}_{id} \right]$ 0.6 W

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

Static heat dissipation, non-current-dependent $[\mathrm{P}_{\mathrm{vs}}]$ 0 W

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

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

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 parts10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatMeets 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 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 properties10.9.2 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 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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 Bectromagnetic 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) / Voltmeter selector switch (EC000911)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Volt meter switch (ecl@ss10.0.1-27-37-14-11 [AKF068013])

Measurement between phases possible Yes

Measuring between phase and N-neutral possible Yes

With 0 (off) position Yes

Device construction Other

Modular version No

With control unit No

Degree of protection (IP) IP65

Degree of protection (NEVA) Other





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