

199890 P1-40/E/HI11	
Overview Specifi	ications Resources
	DELIVERY PROGRAM
Delivery program	
Technical data	Product range On-Off switch
Design verification as per IEC/EN 61439	Part group reference P1
Technical data ETIM8.0	with black thumb grip and front plate
	Number of poles 3 pole
	Auxiliary contacts
	\ 1 №O
	ゲ 1 №C

Degree of Protection Front IP65

Design flush mounting



Contact sequence

Switching angle 90 $^\circ$

Front plate	e no.
ION	1
OFF-O	
	J
FS 908	

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

400 V [P] 22 kW

Rated uninterrupted current [l_] 40 A

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

Mechanical shock resistance 15 g

Mounting position As required

Contacts

Mechanical variables Number of poles 3 pole

Mechanical variables Auxiliary contacts \ 1 NO

Mechanical variables Auxiliary contacts 7 1 NC

Electrical characteristics Rated operational voltage [Ue] 690 V AC Electrical characteristics Rated uninterrupted current [I,] 40 A

Electrical 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) $[I_{\rm cw}]$ 640 $A_{\rm rms}$

Note on rated short-time withstand current lcw Ourrent 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 $\rm I_{e}$ 3.5 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] 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 [ta] 30 A

AC

AC-3 Rated operational current motor load switch 400V 415 V [le] 30 A

AC

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

AC AC-21A Rated operational current switch 400 V 415 V [le] 40 A

AC

AC-21A Rated operational current switch 500 V $[l_{\rm e}]$ 40 A

AC

AC-21A Rated operational current switch 690 V [l_e] 40 A

AC

AC-22A Rated operational current switch 400 V 415 V [le] 40 A

AC AC-22A Rated operational current switch 500 V [le] 40 A

AC

AC-22A Rated operational current switch 690 V $[l_{\rm e}]$ 40 A

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 230 V [P] 11 kW

AC AC-23A Notor 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 [ta] 40 A

AC AC-23A Rated operational current motor load switch 400 V 415 V [le] 40 A

AC AC-23A Rated operational current motor load switch 690 V [l_e] 20 A

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

Hexible with ferrules to DIN 46228 1 x (1 - 4) 2 x (1 - 4) mn^2

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 $[I_{\rm h}]$ 40 A

Heat dissipation per pole, current-dependent $[\mathrm{P}_{\mathrm{id}}]$ 1.9 W

TECHNICAL DATA ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric 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 No

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 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 $0.64\ \mathrm{kA}$

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 3

Number of auxiliary contacts as normally closed contact 1

Number of auxiliary contacts as normally open contact 1

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 floor mounting No

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 Short thumb-grip

Interlockable No

Type of electrical connection of main circuit Screw connection

Degree of protection (IP), front side IP65

Degree of protection (NEVA)





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