

199933 P1-40/IVS/N				
Overview	Specifications	Resources		
Delivery program) DELIN	/ERY PROGRAM		
Technical data		Product range On-Off switch		
Design verification as per IEC/EN 61439	Part group P1	Part group reference P1		
Technical data ETIM 8.0	with black	with black thumb grip and front plate		
		Information about equipment supplied auxiliary contact fitted by user.		
		Number of poles 3 pole + N		
	Auxiliar	Auxiliary contacts		
	\ 0 N/O	/ 0 NO		

7

0 N/C

Degree of Protection Front IP30

Design service distribution board mounting



Contact sequence

Switching angle 90 °

Front plate no.



FS 908

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

400 V [P] 22 kW

Rated uninterrupted current [I] 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 $\left[U_{imp} \right]$ 6000 V AC

Mechanical shock resistance 15 g

Mounting position As required

Contacts

Mechanical variables Number of poles 3 pole + N

Mechanical variables Auxiliary contacts \ 0 NO

Mechanical variables Auxiliary contacts 0 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) $[l_{\rm cw}]$ 640 $A_{\rm rms}$

Note on rated short-time withstand current lcw Current 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 $\rm l_{e}$ 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-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 [le] 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 [[4] 40 A

AC

AC-21A Rated operational current switch 500 V [la] 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-22A Rated operational current switch 500 V [La] 40 A

AC AC-22A Rated operational current switch 690 V [la] 40 A

AC

22 kW

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

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

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 [La] 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_c] 20 A

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

Terminal capacities

Solid or stranded 1 x (1,5 - 10) 2 x (1,5 - 10) 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

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 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 4

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 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 IP30

Degree of protection (NEVA)



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