図FFA Battery Isolation Switches 921/922

Description

Single or two pole isolation switches to IEC 60947/EN 60947 with toggle actuation. Options include auxiliary contacts, a moulded flame retardant enclosure for added environmental protection (with or without rotary action external operating knob), and remote operation - disconnection only, or disconnection and re-connection. A version for use in hazardous areas (e.g. petroleum and chemical tankers) is available to special order.

Typical applications

Vehicles of all types (including tankers), boats, battery powered systems.

Ordering information

Туре	No.								
921	singl	single pole switch							
922	doub	double pole switch							
	Encl	osure	sure design (optional)						
	B 3	witho	thout external operating knob, for use only with single pole devices						
	B 31	B31 with external operating knob, for use only with single pole d B32 without external operating knob, for use only with double pole of							
	B32								
	B33	with (th external operating knob, for use with double pole devices						
	B34	with external operating knob, for use only with double pole devices							
		with remote-re-connection facility							
	B35	with external operating knob, for use only with single pole devices							
		with I	remot	te-re-co	onnec	tion facility			
	C3	without external operating knob, 1-pole, IP65							
	C32	without external operating knob, 2-pole, IP65							
		Term	inal o	design					
		K12	for s	single p	ole ve	ersion, enclosures B3, B31, B35			
		K60	for s	single p	ole ve	ersion			
		K61	for c	double	pole v	version			
		K62	for c	double	pole v	version			
		K71 compulsory and only for C3 housing							
		K72 for double pole version, enclosures B32, B33, B34							
		K76	com	pulsor	y and	only for C32 housing			
			Μοι	unting					
			2 (compulsory and only for C3 and C32 housing mounting brackets - surface mounting					
			5 r						
	Auxiliary contacts (blade terminals 6.3x0.8) Si2 one N/O Si01 one N/C, two N/O 2Si2 two N/O					ntacts (blade terminals 6.3x0.8)			
						0			
						C, two N/O			
						0			
				Si10 or	ne eac	ch N/O and N/C			
				Si10 or	ne eac emote	ch N/O and N/C e operation			
				Si10 or R F/	ne eac emote	ch N/O and N/C e operation remote disconnection			
			1		ne eac emote A C	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA)			
				Si10 or F/ F/	ne eac emote A C	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE)			
			1	Si10 or F/ F0 B	ne eac emoto A C C-FA	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE) electrical remote disconnection and			
				Si10 or F/ F/ B	ne eac emote A C C-FA	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE) electrical remote disconnection and manual remote re-connection			
			1	Si10 or R F/ F0 B	ne eac emoto A C C-FA	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE) electrical remote disconnection and manual remote re-connection (not for enclosure -B or -C)			
			4	Si10 or F/ F/ B	ne eac emoto C C-FA	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE) electrical remote disconnection and manual remote re-connection (not for enclosure -B or -C) Coil voltage			
			1	Si10 or F/ F/ B	ne eac emoto C C-FA	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE) electrical remote disconnection and manual remote re-connection (not for enclosure -B or -C) Coil voltage 12 AC/DC 12 V			
				Si10 or F/ F/ B	ne eac emotr A C C-FA	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE) electrical remote disconnection and manual remote re-connection (not for enclosure -B or -C) Coil voltage 12 AC/DC 12 V 24 AC/DC 24 V			
				Si10 or F F B	ne eac emoti A C C-FA	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE) electrical remote disconnection and manual remote re-connection (not for enclosure -B or -C) Coil voltage 12 AC/DC 12 V 24 AC/DC 24 V Current ratings 04 berge 001			
			4	Si10 or R F F B	ne eac emote A C C-FA	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE) electrical remote disconnection and manual remote re-connection (not for enclosure -B or -C) Coil voltage 12 AC/DC 12 V 24 AC/DC 24 V Current ratings 240 A type 921 400 A type 920			
			4	Si10 or F/ F/ B	ne eac emotion A C C-FA	ch N/O and N/C e operation remote disconnection electrical remote disconnection (FA) and re-connection (FE) electrical remote disconnection and manual remote re-connection (not for enclosure -B or -C) Coil voltage 12 AC/DC 12 V 24 AC/DC 12 V 24 AC/DC 24 V Current ratings 240 A type 921 120 A type 922			

The exact part number required can be built up from the table of choices shown above. Ordering references for optional features should be omitted if not required.



Technical data

Voltage rating	DC 12 V; DC 24 V		
Current rating range	240 A type 921, single pole 120 A type 922, double pole		
Auxiliary contact rating	6 A at DC 24 V 1 A at DC 110 V		
Electrical remote disconne operating voltage operating current max. pulse time switching time	ection (-FA): DC 12 V or DC 24 V approx. 18 A or app 10 ms < t _{ON} < 20 ms < 20 ms	rox. 12 A s /t _{OFF} > 10 s	
Electrical remote re-conne operating voltage operating current max. pulse time switching time	xtion (-FE): DC 12 V or DC 24 V approx. 30 A or approx. 15 A 0.1 s < t_{ON} < 1.2 s / t_{OFF} > 60 s < 100 ms		
Typical life	10,000 operations at I _N 20,000 operations mechanical		
Ambient temperature	-40+75 °C (-40+	-167 °F)	
Insulation co-ordination (IEC 60664 and 60664A)	rated impulse withstand voltage 6 kV	pollution degree 3	
Dielectric strength (IEC 60664 and 60664A) operating area pole/pole main to aux. circuit aux. circuits 11-12 to 13-14	test voltage AC 3,300 V AC 3,300 V AC 2,200 V AC 1,000 V		
Insulation resistance	> 100 MΩ (DC 500 V)		
Switching capacity	Type 921 2,500A for 1s at +23°C 600A for 1min at +23°C 600A for 2min at -23°C 600A for 90s at 0°C	Type 922 1,500A for 1s at +23°C 600A for 30s at +23°C 600A for 1min at -23°C 600A for 45s at 0°C	
Degree of protection (IEC 529/DIN 40050)	operating area IP40 terminal area IP00 IP54 with enclosure -B IP65 with enclosure -C		
Vibration	ion 5 g (57-200 Hz), ± 0.38 mm (10-57 Hz) to IEC 60068-2-6, test Fc 10 frequency cycles/axis		
Shock	25 g (11 ms), to IEC 60068-2-27, test Ea		
Corrosion	96 hours at 5 % salt mist to IEC 60068-2-11, test Ka		
Humidity	240 hours at 95 % RH, to IEC 60068-2-3, test Ca		
Mass	approx. 900 g base unit + approx. 400 g remote disconnection + approx. 100 g remote re-connection + approx. 750 g B housing + approx. 1,000 g C housing		



Dimensions



This is a metric design and millimeter dimensions take precedence (mm)

図目示A Battery Isolation Switches 921/922

Dimensions types 922



Internal connection diagrams





922-C32-...



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Terminals with housing C3.



Shock directions



This is a metric design and millimeter dimensions take precedence (mm) inch

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved.Product markings may not be exactly as the ordering codes. Errors and omissions excepted.