Technical Data Sheet EPSILON CAM SPRING RETURN SERIES



EPSILON CAM SPRING RETURN SERIES provide contacts that are held closed only when the switch is turned against the mechanism spring. The mechanism returning the contacts to their original state upon release of the actuator. This type of switches are known as "Momentary switches".

• Epsilon Spring Return 16 A • Epsilon Spring Return 25 A

Special Features

- Compact Design
- → 60 & 90 Degree Angle of Throw
- → Flag Type Knob Handle
- Spring Loaded Mechanism
- → Standard Mounting Plate
- → IP 20 (16A)

Application

- Industrial Panel
- Generator Controls
- Motor Controls
- Mains Switching
- Coolant Pumps

Spring return switches are used to energise contactors for controlling motor operation. It offers unique alternative to multipe " Push Botton Stations " when one switch controls instead of many pus h bottons.

A focused range of Cam Spring Return Series switches cover most of applications with different contact designs, contact materials and terminal allow their use as control switches as well as in electronic circuitry and in aggressive environment according to IEC/EN 60947-1,3 & 5

Dimensions Details







Length (L) = No. of Stages of Prog x B + W1 + W2

Drilling Plane

Туре	Α	В	C _(Max.)	D	M1	M2	M3	R	S	W1	W2
Epsilon 16A	29	9.5	4	43	36	4	7	60	48	19	5
Epsilon 25A	34	14.3	4	53	48	4	12	64	64	24	6.2



ISOLATER



Changeover switch



Changeover Without off

Spring Return Switches without OFF	Current Rating		
Description	16A	25A	
SPRING RETURN 60D 1P 2W W/OFF	*	*	
SPRING RETURN 60D 2P 2W W/OFF	*	*	
SPRING RETURN 60D 3P 2W W/OFF	*	*	

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Technical Specifications

Conformance to standards : Op European : IEC 60947-1 Fre IEC 60947-3 Ov Q IEC 60947-5 Sto Indian : IS 13947-1/3/5 Ma	erating Conditions quency : 50/6 erating Temp. : -25° er voltage category rage : -40°C x. Altitude : 2000 r : 50 Frc	: 0 Hz C to 60 °C : III to 80 °C n nt	Switch Life : Mechanical Life : 1 Lac operations @ 300 Cycles/hr Electrical Life : 10,000 opeartions @ 100% Rated duty at 120 cycle Contacts : Double break type AgNi Double break type AgCdO					
Parameter		Unit	16A	25A				
Rated operational voltage (Ue)		V	690	690				
Rated Insulation voltage (Ui)		V	690	690				
Rated operational current (Ie)		А	16	25				
Conventional free air thermal current (I	h)	А	20	32				
Rated short time withstand current (Icw) (1s- Current)	А	192*	300				
Rated Impulse withstand voltage (Uimp)	KV	4	6				
Rated Fuse short circuit current		KA	5	10				
Fuse size (Type gG / gM)		А	16	25				
AC23A 3phase	220-240V	KW	3	4.7				
	380-440V	KW	5.5	7.5				
	500V	KW	5.5	11				
	660-690V	KW	5.5	11				
AC23A 1phase	110V	KW	0.55	1.5				
	220-240V	KW	1.5	3				
	380-440V	KW	2.2	5.5				
AC3 3phase	220-240V	KW	3	4.7				
	380-440V	KW	5.5	7.5				
	500V	KW	5.5	11				
	600-690V	KW	5.5	11				
AC3 1phase	110V	KW	0.55	1.5				
	220-240V	KW	1.5	3				
	380-440V	KW	2.5	5.5				
AC21A/AC1		А	16	25				
AC15	220-240V	А	5	8				
	380-440V	А	4	5				
Terminal cross -section								
Single / Multiple	Min	mm2	1.5	2.5				
	Max	mm2	4	4				
Fine strand with sleeve	Min	mm2	1	1.5				
	Max	mm2	2.5	4				
Terminal screw		Metric	M3	M4				
Terminal tightening torque		Nm	0.8	1.2				

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Ordering informa	tion										
Product Code	CSRX-	X	X	X	XX	X	Х	Х	Х	0	0ST
	CSR1 : ON-OFF (16A)										
	CSR2 : DOUBLE THROW (16A)										
	CSR3 : SR WITHOUT OFF (16A)										
	CSR5 : ON-OFF (25A)										
	CSR6 : DOUBLE THROW (25A)										
	CSR7 : SR WITHOUT OFF (25A)										
Ampere code for CSRX	16A	A									
	25A	В									
Type for CSRX	ON-OFF spring return		1								
	Double throw with spring return		2								
	Spring return without OFF		3								
Poles for CSRX	1 Pole			1							
	2 Poles			2							
	3 Poles			3							
	4 Poles			4							
No of ways for CSRX	No ways				XX						
	2 Ways										
	4 Ways										
OFF for CSRX	Without OFF					w					
	With OFF					0					
Angle for CSRX	30 Degree						3				
	45 Degree						4				
	60 Degree						6				
	90 Degree						9				
Knob shape for CRF1	Flang Shape							F			
Front Plate colour for CRF1	Silver sheet & Black knob								А		
	Yellow sheet & Red knob								В		
Reserved										0	0ST



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