



I. Applicable range

SF series DIN-rail installation micro change-over switch is a kind of switch apparatus applicabl to the hybrid resistance and impedance circuit with AC 50Hz or 60Hz, rated voltage below 230-400V and rated current 16A-125A, allowing for 2 power sources or load conversion, realizing the functions of circuit conversion and switch disconnection. It can be used for the changeover of power supply of electrical equipments, changeover of positive and reverse running of motor, measurement of voitage of return circuit and phase change of currentetc. The product conforms to the standard IEC60947-3 and EN60947-3

II. Product features

The DIN-rail installation micro change-over switch realizes the changeover of O, I and II pasitions directly with manual handle. The turning slot of the internal handle and the sliding position of the spindle are all coated with high grade lubricant to reduce mechanical wear. The dynamic and static contact adopt the reasonable contact method with good conductivity and stability. The modular and standard guide installation structure is particularly suitable for the matching circuit of terminalcombination apparatus.

Specification and Feature

- ■ON and OFF indicator
- Conform to standard IEC60947-3
- The position ON/OFF handle correspond to the state of the contacts
- Fast installation and removal

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III.Technical parameters

Pole Number	1,2,3,4				
Standard	IEC60947-3				
Rated Current of Structure Design	32A				
Voltage and Frequency	230/240V~, 50/60Hz				
Rated Current	63-125A				
Insulation voltage Ui	500V				
Rated short circuit making capacity	20le, t=0.1s				
Electrical life	1500				
Mechanical life	8500				
Pollution degree	2				
Terminal connection type	Cable busbar				
Tightening torque	3.5Nm				
Rated shot-time withstand current Icw	12le 1s				
Uilization category	AC-22A				

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IV.Overall&Installation Dimensions

V. Installation and use instructions and notes for attention

The DIN-rail installation micro change-over switch should be installed vertically, with the upper terminal connected with the power source and the dynamic contact de-energized when disconnected soas to ensure the human safety during manual operation.

Normally, the DIN-rail installation micro

change -over switch should not be perated with load during switching -on and off. ■The upper end is for incoming line and the lower end for outgoing line (load terminal), reverse connection is not allowed. If it is ne cessary to cut off the power of position I and II, when the handle is pushed to the position O, the position I and II are allin powered off state. If position II is to be activated, push the handle upward, then the contact of position II is connected, and that of position I is disconnected; if position I is to be activated, pull the handle downward, then the contact of position I is connected, while that of position II is disconnected. ■The 3- positon cha ngeover of the product is realized through the operation of mechanical parts relying on the compression and release of the m ain spring. The handle needs high operating force and shows big inertia force (63A-125A product), usually, it is difficult to realiz e accurate changeover with a single hand, and the improper operation will cause a bnormal changeover of the circuit. During use, it is recommended to operate 63A-125A product with both hands or with a ccessories provided by the factory (the extende d operating handle).

The DIN-rail installation micro change-over switch should not be applied with overcurrent during connection and disconnection (use under overload),nor cut on and off with normal working current. Never push or pull the switch with strong force in order to avoid any accident or reduction of the service life.

If several cha nge- over switches are put into the closed distribution box at same time, heat may be accumulated in the box, as a result, the temperature will rise and the switch will get extremely hot. After long time of use, the insulating parts of the products will be damaged and the service life of the product will be reduced. When the temperature reached over + 40C, the product should be derated. If the derating factor is 0.8. then the maximum working current shall be the rated current multiplied by the factor 08 (for example: the max imum working current 125Ax 0.8 = 100A).

■ The DIN-rail installation micro change - over switch has no arc extinguishing chamber. It is not allowed to use it for breaking fault current. If necessary, the customer can select proper fuse com bination to make availa ble big load and short circuit breaking capacity (the concrete brea king capacity is decided by the breaking ability of the fuse selected). The section area of the connecting wire of change-over switch should match the rated current so as to ensure the normal use of the product. The torque of productwire: 1.2 N. mat 16-40A.

Rated current (A	16-20A	25A	32A	40-50A	63A	8GA	100A	125A
Wire speoficaton	2.5	4	6	10	16	25	35	50

■During the use, the connecting terminals of the switch and wires should be checked if they are well fastened with screws. If the terminals change color,