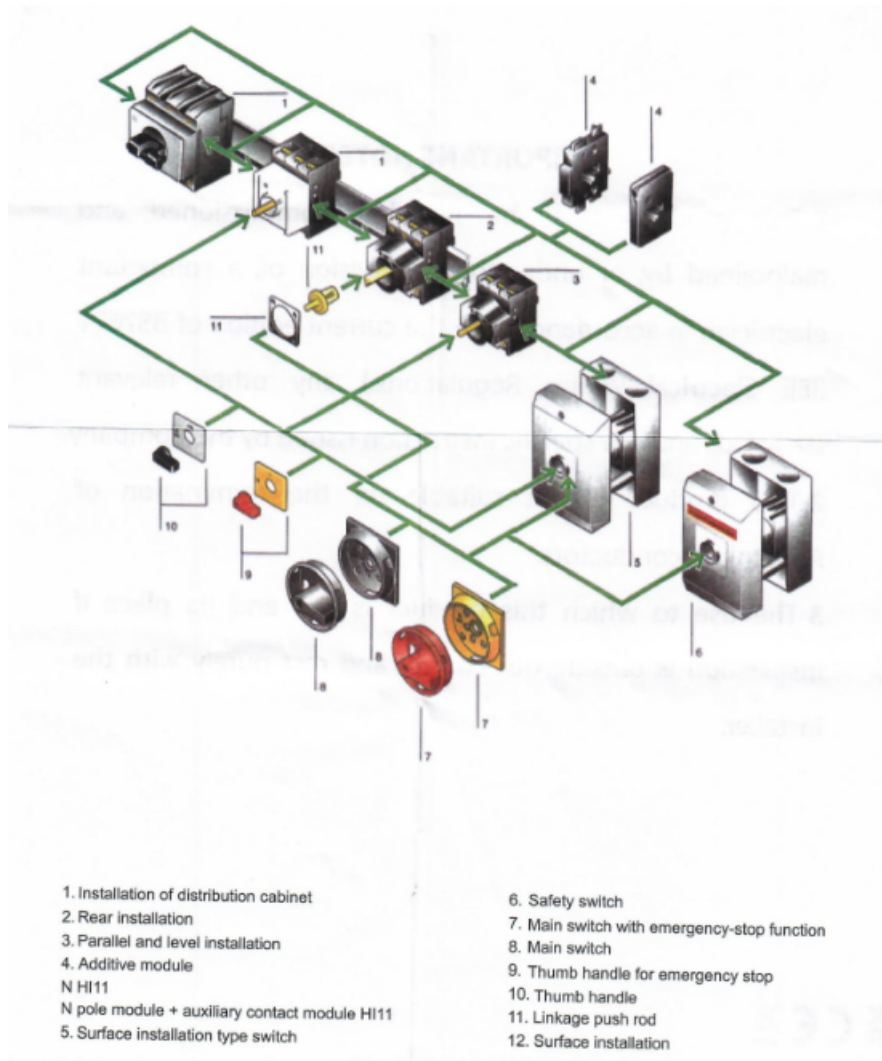




POWER PROTECTION

SSRI-16A, SSRI-20A, SSRI-25A, SSRI-32A, SSRI-40A, SSRI-63A, SSRI-100A Surface Installation

Selectric range of Supply Disconnecting Rotary Isolators



	SSRI-16A	SSRI-20A	SSRI-25A	SSRI-32A	SSRI-40A	SSRI-63A	SSRI-100A	Aux Contact
Rated isolation voltage (Ui)	690V	690V	690V	690V	690V	690V	690V	600V
Rated operational Voltage (Ue) [Ue≤Ui]	440V							230V
Rated impulse withstand voltage (Uimp)	6KV	6KV	6KV	6KV	6KV	6KV	6KV	6KV
Rated operational current (Ie) Amps	16A	20A	25A	32A	40A	63A	100A	10A
Rated operational power Watts AC-23A	4kW	5.5kW	7.5kW	11kW	15kW	22kW	37kW	2.3 kW
Rated operational power Watts AC-3	3kW	4kW	5kW	7.5kW	11kW	18.5kW	30kW	1.5kW
Utilisation category (Note1)	AC-3, AC-23A							
Short circuit withstand capacity (Icw)	320A	320A	500A	500A	800A	800A	2000A	
Isolator Type	Either: Standard isolator (Switch black/grey – item 8) or Emergency isolator (Switch red/yellow – item 7) Note 2							
Lockable	Yes – in OFF position only							
IP rating	IP65							
No of poles	3P, or 4P (with N additive module)							
Standard	IEC/EN60947-3 Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units.							IEC/EN60947-5
Terminal capacity	1.5-2.5mm ² cable	1.5-2.5mm ² cable	6-10mm ² cable	6-10mm ² cable	6-16mm ² cable	6-16mm ² cable	25-35mm ² cable	1.5 – 2,5mm ² cable
Enclosure Dimensions (excluding handle)								
Depth mm	86	86	86	86	101	101	122	
Height mm	126	126	126	126	176	176	240	
Width mm	101	101	101	101	116	116	160	

Note 1. Utilisation category

The designation of the utilisation category is made up of three parts:

1. The prefix AC or DC, which indicates the nature of the current.
2. The two digit number, which indicates the type of application the unit is suitable for:

- 3 - Squirrel-cage motors: starting, switching off motors during running
- 20 - Connecting and disconnecting under no-load conditions.
- 21 - Switching of resistive loads, including moderate overloads.
- 22 - Switching of mixed resistive and inductive loads, including moderate overloads.
- 23 - Switching of motor loads or other highly inductive loads.

3. The suffix A or B, relates to whether or not the disconnector is specifically intended for selectivity by means of an intentional time delay with respect to other circuit breakers in series on the load side under short-circuits conditions. (i.e. whether or not I_{cw} required)

A Protection of circuits with no rated short-time withstand current. (i.e., no delay)

B Protection of circuits with a short-time withstand current (For this category of circuit breaker, the value of short-circuit current (I_{cw}) that can be withstood for a specified time is also required)

Examples:

A fuse-combination unit feeding a 400V AC circuit of mixed resistive and inductive loads operated frequently would require a minimum utilisation category of AC-22A.

With highly inductive, i.e. motor loads, then the minimum utilisation category would be AC-23A. (Generally, category AC-23 does not cover the switching of capacitors, which can put a very heavy load on the contacts. Usually this is the subject of agreement between manufacturer and user)

Note 2: Emergency Stop

Supply disconnecting devices are acceptable for use as local EMERGENCY STOP devices as long as:

- They are easily accessible for operating personnel.
- The handle is red and on a yellow background.
- The device has a breaking capacity sufficient to interrupt the current of the largest motor when stalled together with the sum of the normal running currents of all other motors and loads.
- The device is able to conduct the total rated operational current of all connected devices.
- The EMERGENCY STOP switch may not break those circuits that could lead to endangerment of the personnel or the machine.

Note 3 Additive Modules.

It is possible to mount additive modules to either side of the isolator. The optional modules are:

N module – The neutral contact is early make/late break (so the Neutral is always connected when the Line terminals are)

Addition of this module converts the isolator from 3P to 3P+N

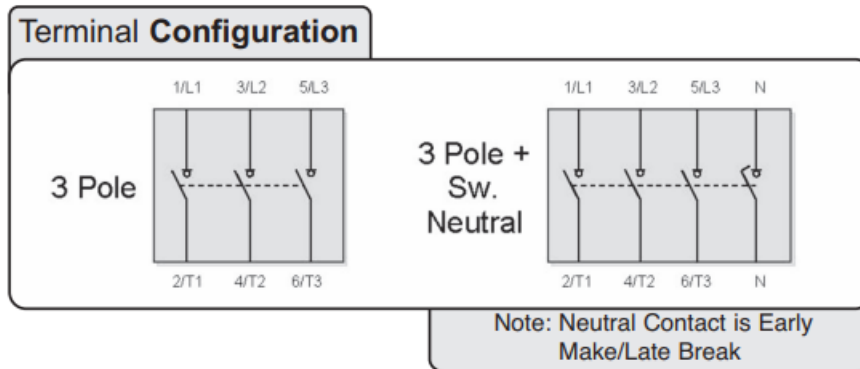
Auxiliary contact - 1NC + 1NO



This auxiliary contact is specifically designed for use with the Selectric Switch-Disconnectors.

- Late-break switching-on behaviour, early-make switching-off behaviour
- The N/O is always connected as a load-shedding contact
- For left and/or right side mounting
- Screw type connecting terminals
- Contact current rating. 3 sizes from 16A - 100 A

Many uses such as electric motor starters, power circuits, electrical signalling and in control systems. Physically connected to the isolator, with simultaneous activation and deactivation applying to both the isolator and the auxiliary contactor.



SAFETY FIRST

- BEFORE STARTING ANY ELECTRICAL WORK ALWAYS SWITCH OFF AT THE MAINS
- IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN

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