

# Isolators Ex9BI



- **Modular Isolators**
- **Wide range of accessories**
- **Rated current up to 63 A**
- **Rated voltage 230 / 400 V AC**
- **Rated short-time withstand current  $I_{cw} = 1 \text{ kA}, 1 \text{ s}$**
- **Meet requirements of IEC / EN 60947-3**
- **1 up to 4-pole version**

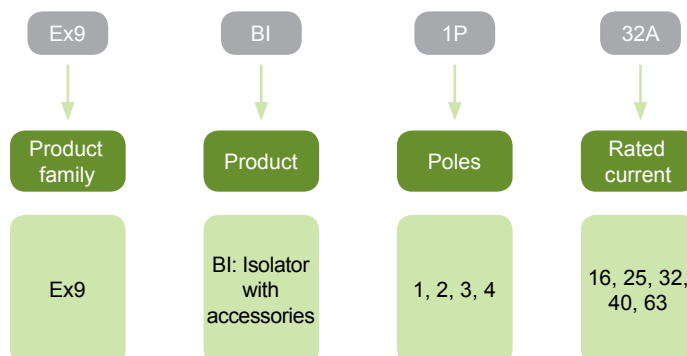
Isolators Ex9BI can be used as a main switch in wide variety of applications. These switches are tested according to IEC / EN 60947-3 standards and fulfill also requirements for isolation function.

Utilization category AC-22A ensures possibility of switching mixed resistive and inductive loads with low overloads with  $\cos \varphi = 0.65$ . Subcategory A allows frequent operation.

Isolators of line Ex9BI are produced in modular design with width one module unit per pole. Can be connected via standard busbars of both fork as well as pin type of connection.

Ex9BI Isolators can be also combined with wide range of accessories including auxiliary contacts, shunt trip releases, undervoltage and overvoltage releases. It is possible to create diversified combination of accessories.

## Type Key



## Certification marks



# Isolators Ex9BI

## Accessories



Auxiliary contacts  
**AX**  
Up to 3 units

Voltage or trip releases  
**SHT, UVT, OVT**  
Up to 2 units

Isolator  
**Ex9BI**  
1, 2, 3, 4-pole

Auxiliary contacts AX3111, AX3122

Shunt trip releases SHT31, SHT3111

Undervoltage releases UVT31, UVT3101, UVT3110

Overvoltage release OVT31

All accessories are mounted from the left side and are identical for devices of the line Ex9B and Ex9PN.

# Isolators Ex9BI

## 1-pole



Rated current	Poles	Width	Article No.	Type	Packing
16 A	1	1 MU	102378	Ex9BI 1P 16A	1/12/144
25 A	1	1 MU	102379	Ex9BI 1P 25A	1/12/144
32 A	1	1 MU	102380	Ex9BI 1P 32A	1/12/144
40 A	1	1 MU	102381	Ex9BI 1P 40A	1/12/144
63 A	1	1 MU	102382	Ex9BI 1P 63A	1/12/144

## 2-pole



Rated current	Poles	Width	Article No.	Type	Packing
16 A	2	2 MU	102383	Ex9BI 2P 16A	1/6/72
25 A	2	2 MU	102384	Ex9BI 2P 25A	1/6/72
32 A	2	2 MU	102385	Ex9BI 2P 32A	1/6/72
40 A	2	2 MU	102386	Ex9BI 2P 40A	1/6/72
63 A	2	2 MU	102387	Ex9BI 2P 63A	1/6/72

## 3-pole



Rated current	Poles	Width	Article No.	Type	Packing
16 A	3	3 MU	102388	Ex9BI 3P 16A	1/4/48
25 A	3	3 MU	102389	Ex9BI 3P 25A	1/4/48
32 A	3	3 MU	102390	Ex9BI 3P 32A	1/4/48
40 A	3	3 MU	102391	Ex9BI 3P 40A	1/4/48
63 A	3	3 MU	102392	Ex9BI 3P 63A	1/4/48

## 4-pole



Rated current	Poles	Width	Article No.	Type	Packing
16 A	4	4 MU	102393	Ex9BI 4P 16A	1/3/36
25 A	4	4 MU	102394	Ex9BI 4P 25A	1/3/36
32 A	4	4 MU	102395	Ex9BI 4P 32A	1/3/36
40 A	4	4 MU	102396	Ex9BI 4P 40A	1/3/36
63 A	4	4 MU	102397	Ex9BI 4P 63A	1/3/36

# Technical Data Ex9BI

## Isolators up to 63 A with Accessories

### General parameters

Modular Isolators		
Usable as main switches with isolation function		
Suitable for household as well as industrial applications		
Accessories		
Auxiliary contacts	AX3111, AX3122	100540, 100542
Shunt trip releases	SHT31, SHT3111	100544-100546, 100547-100549
Undervoltage releases	UVT31, UVT3101, UVT3110	100550-100551, 100552-100553, 100554-100555
Oversvoltage release	OVT31 280V AC±5%	100556
Max. number of installed accessories is 3 pcs of one contact units (AX3111) or 2 pcs of two contact units (AX3122) and 2 pcs of releases (SHT31, UVT31, OVT31)		

### Electrical parameters

Tested according to	IEC/EN 60947-3
Rated op. voltage	230/400 V AC
Rated frequency	50 Hz
Rated current I <sub>e</sub> AC-22A 230/400 V AC	16, 25, 32, 40, 63 A
Number of poles	1, 2, 3, 4
Utilization category	AC-22A
Rated insulation voltage U <sub>i</sub>	690 V
Rated impulse withstand voltage U <sub>imp</sub>	6 kV
Rated short-time withstand current I <sub>cw</sub> , 1 s	1 kA
Rated short-circuit making capacity I <sub>cm</sub>	1.5 kA
Maximum back-up fuse	125 A gG
Mechanical service life	20 000 operation cycles
Electrical service life	10 000 operation cycles

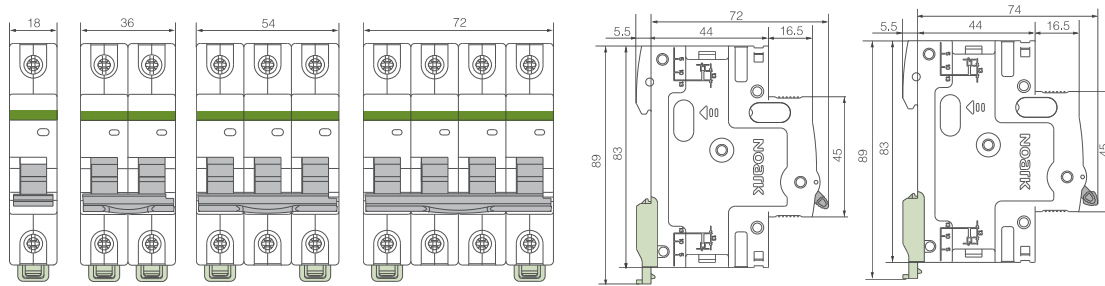
### Mechanical parameters

Device width	18 mm (per pole)
Device height	83 mm (89 mm including rail clip)
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Terminals	combined lift + open mouthed
Terminal capacity	10 — 50 mm <sup>2</sup>
Fastening torque of terminals	2 — 3,5 Nm
Busbar thickness	0,8 — 2 mm
Ambient temperature	-30 — +70 °C
Altitude	≤ 2000 m
Relative humidity	≤ 95 %
Resistance to humidity and heat	class 2
Pollution degree	2
Installation class	III
Weight	0.09 kg per pole

# Technical Data Ex9BI

Isolators up to 63 A with Accessories

## Dimensions



## Wiring diagrams

