

# Isolators Ex9I125



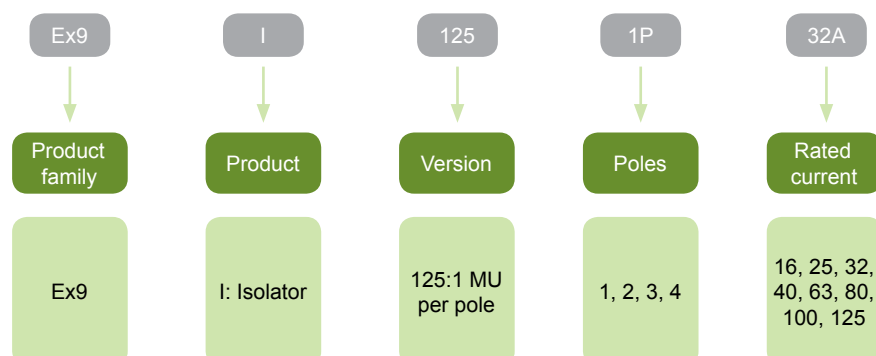
- **Modular Isolators**
- **Rated current up to 125 A**
- **Rated voltage 230 / 400 V AC**
- **Rated short-time withstand current  $I_{cw} = 12 \times I_e$ , 1 s**
- **Meet requirements of IEC / EN 60947-3**
- **Built-in lock mechanism for OFF position**
- **1 up to 4-pole version**

Isolators Ex9I125 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 Ex9I125 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.

## Type Key



## Certification marks



# Isolators Ex9I125

## 1-pole



| Rated current | Poles | Width | Article No. | Type            | Packing  |
|---------------|-------|-------|-------------|-----------------|----------|
| 16 A          | 1     | 1 MU  | 102304      | Ex9I125 1P 16A  | 1/12/144 |
| 25 A          | 1     | 1 MU  | 102305      | Ex9I125 1P 25A  | 1/12/144 |
| 32 A          | 1     | 1 MU  | 100862      | Ex9I125 1P 32A  | 1/12/144 |
| 40 A          | 1     | 1 MU  | 100863      | Ex9I125 1P 40A  | 1/12/144 |
| 63 A          | 1     | 1 MU  | 100864      | Ex9I125 1P 63A  | 1/12/144 |
| 80 A          | 1     | 1 MU  | 100865      | Ex9I125 1P 80A  | 1/12/144 |
| 100 A         | 1     | 1 MU  | 100866      | Ex9I125 1P 100A | 1/12/144 |
| 125 A         | 1     | 1 MU  | 100867      | Ex9I125 1P 125A | 1/12/144 |

## 2-pole



| Rated current | Poles | Width | Article No. | Type            | Packing |
|---------------|-------|-------|-------------|-----------------|---------|
| 16 A          | 2     | 2 MU  | 102306      | Ex9I125 2P 16A  | 1/6/72  |
| 25 A          | 2     | 2 MU  | 102307      | Ex9I125 2P 25A  | 1/6/72  |
| 32 A          | 2     | 2 MU  | 100868      | Ex9I125 2P 32A  | 1/6/72  |
| 40 A          | 2     | 2 MU  | 100869      | Ex9I125 2P 40A  | 1/6/72  |
| 63 A          | 2     | 2 MU  | 100870      | Ex9I125 2P 63A  | 1/6/72  |
| 80 A          | 2     | 2 MU  | 100871      | Ex9I125 2P 80A  | 1/6/72  |
| 100 A         | 2     | 2 MU  | 100872      | Ex9I125 2P 100A | 1/6/72  |
| 125 A         | 2     | 2 MU  | 100873      | Ex9I125 2P 125A | 1/6/72  |

## 3-pole



| Rated current | Poles | Width | Article No. | Type            | Packing |
|---------------|-------|-------|-------------|-----------------|---------|
| 16 A          | 3     | 3 MU  | 102308      | Ex9I125 3P 16A  | 1/4/48  |
| 25 A          | 3     | 3 MU  | 102309      | Ex9I125 3P 25A  | 1/4/48  |
| 32 A          | 3     | 3 MU  | 100874      | Ex9I125 3P 32A  | 1/4/48  |
| 40 A          | 3     | 3 MU  | 100875      | Ex9I125 3P 40A  | 1/4/48  |
| 63 A          | 3     | 3 MU  | 100876      | Ex9I125 3P 63A  | 1/4/48  |
| 80 A          | 3     | 3 MU  | 100877      | Ex9I125 3P 80A  | 1/4/48  |
| 100 A         | 3     | 3 MU  | 100878      | Ex9I125 3P 100A | 1/4/48  |
| 125 A         | 3     | 3 MU  | 100879      | Ex9I125 3P 125A | 1/4/48  |

## 4-pole



| Rated current | Poles | Width | Article No. | Type            | Packing |
|---------------|-------|-------|-------------|-----------------|---------|
| 16 A          | 4     | 4 MU  | 102310      | Ex9I125 4P 16A  | 1/3/36  |
| 25 A          | 4     | 4 MU  | 102311      | Ex9I125 4P 25A  | 1/3/36  |
| 32 A          | 4     | 4 MU  | 100880      | Ex9I125 4P 32A  | 1/3/36  |
| 40 A          | 4     | 4 MU  | 100881      | Ex9I125 4P 40A  | 1/3/36  |
| 63 A          | 4     | 4 MU  | 100882      | Ex9I125 4P 63A  | 1/3/36  |
| 80 A          | 4     | 4 MU  | 100883      | Ex9I125 4P 80A  | 1/3/36  |
| 100 A         | 4     | 4 MU  | 100884      | Ex9I125 4P 100A | 1/3/36  |
| 125 A         | 4     | 4 MU  | 100885      | Ex9I125 4P 125A | 1/3/36  |

# Technical Data Ex9I125

## Isolators up to 125 A

### General parameters

|                                          |
|------------------------------------------|
| Modular design                           |
| Main switches with isolation function    |
| Built-in lock mechanism for OFF position |

### Electrical parameters

|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| Tested according to                               | IEC/EN 60947-3                     |
| Rated op. voltage                                 | 230/400 V AC                       |
| Rated frequency                                   | 50/60 Hz                           |
| Rated current $I_e$ AC-22A 230/400 V AC           | 16, 25, 32, 40, 63, 80, 100, 125 A |
| Number of poles                                   | 1, 2, 3, 4                         |
| Utilization category                              | AC-22A                             |
| Rated insulation voltage $U_i$                    | 500 V                              |
| Rated impulse withstand voltage $U_{imp}$         | 6 kV                               |
| Rated short-time withstand current $I_{cw}$ , 1 s | $12 \times I_e$                    |
| Rated short-circuit making capacity $I_{cm}$      |                                    |
| $I_n = 16, 25, 32$ A                              | 640 A                              |
| $I_n = 40, 63$ A                                  | 1 260 A                            |
| $I_n = 80, 100, 125$ A                            | 2 500 A                            |
| Maximum back-up fuse                              | 160 A gG                           |
| Mechanical service life                           | 20 000 operation cycles            |
| Electrical service life                           | 4 000 operation cycles             |

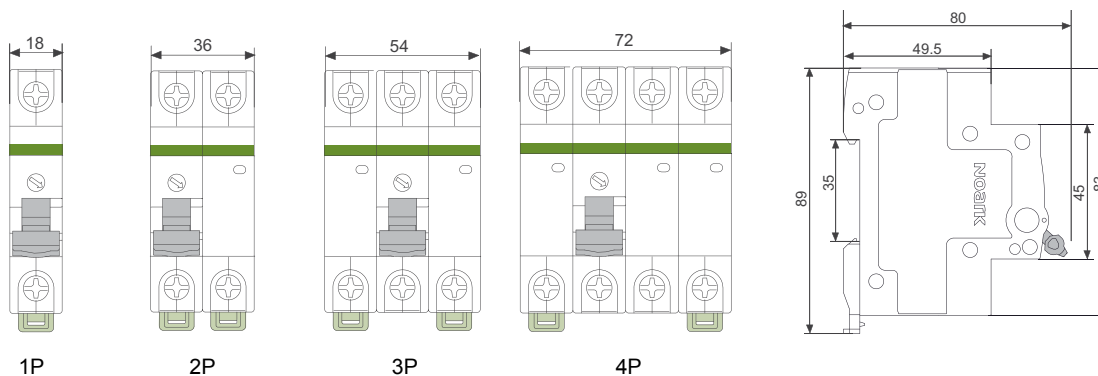
### Mechanical parameters

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| 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            | IP40, terminals 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                            |

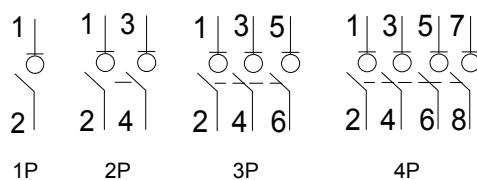
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Isolators up to 125 A

## Dimensions



## Wiring diagrams



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