



Рубильник с катушкой отключения Socomec IDE - брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: <https://www.uni-jet.com/catalog/commutation/vyiklyuchateli-nagruzki/socomec-ide/>



Remotely trippable switch from 32 to 160 A

➤ Function

IDE are manually operated multipolar load break switches which can be tripped remotely. They make and break under load conditions and provide safety isolation for any low voltage electric circuit, particularly for compliance with the machine directive: **protection against automatic restart after isolation and re-establishment of the mains voltage (EN 60204.1 § 7.5).**

➤ General characteristics

Customized design of IDE switches provides the following advantages:

- operating safety:
 - remote control by tripping coils,
 - fully visualised breaking,
 - IP20 protection with terminal shrouds (accessory).
- ease of positioning:
 - device originally equipped with an early break auxiliary contact to simplify the wiring,
 - front or rear mounting, in direct or external operation.

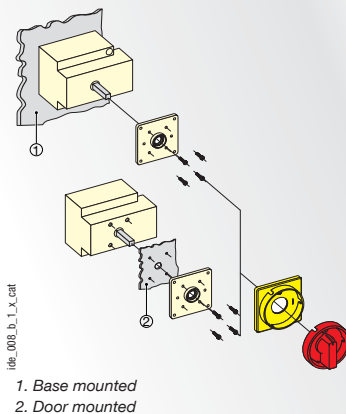
➤ Conformity to standards

- IEC 60947-3
- EN 60947-3
- EN 60204-1 § 7.5
- VDE 0660-107
- VDE 0113-1

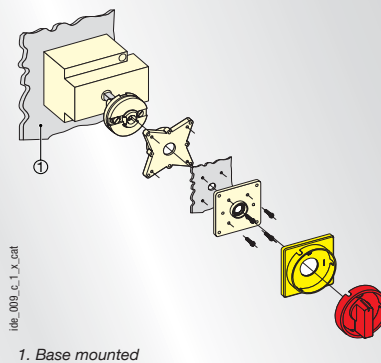
What you need to know

- The IDEs are available in **direct** and **disconnectable external** operation versions.
 Can be equipped with 3 or 4 pole and are available with two types of mounting:
 - rear mounting on **plate** or on **DIN rail**, direct operation or disconnectable external operation,
 - **door** or **panel** mounting.

Direct operation

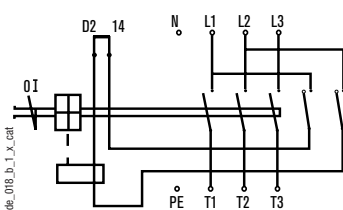


Disconnectable external control

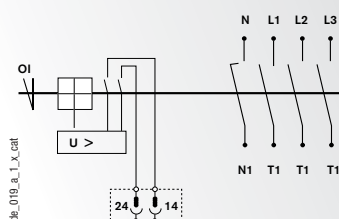


- Available in 230 or 400 VAC versions, the IDEs can be tripped remotely via a **shunt trip** or **undervoltage coil**.
 They are used to protect against automatic restarting and to prevent damage caused if the network malfunctions and is then re-established.
- Factory mounted, IDE includes an **internal cabling**.
 Coil is supplied between:
 - L1 and N for device 230 VAC,
 - L1 and L2 for device 400 VAC.
 For an IDE 32 A, an actuator relay can be incorporated between D2 and 14 (other wiring on request).

IDE 32 A



Internal cabling IDE 40 to 160 A



➤ IDE - References



Base mounted

Rating (A)	No. of poles	Switch body Undervoltage coil	Switch body shunt trip coil	Direct handle	External operation 200 mm	Auxiliary contact position	Terminal covers top/bottom (2 sets)	Empty enclosure	
32 A	3 P	1260 3003 ⁽¹⁾		Black IP65 1299 5012 Red/Yellow IP65 1299 5013	Black IP65 1299 6022 Red/Yellow IP65 1299 6023	1 contact NO+NC 1299 5001	3/4 P 1299 8003	1295 9001 ⁽²⁾	
	3 P	1270 3003 ⁽³⁾							
	4 P								
	4 P								
40 A	3 P	1260 3004 ⁽⁴⁾⁽¹⁾	1280 3004 ⁽⁴⁾⁽¹⁾	Black IP65 1299 6142 ⁽⁵⁾ Red/Yellow IP65 1299 6143 ⁽⁵⁾	Black IP65 1299 6032 Red/Yellow IP65 1299 6033	1 contact NO+NC 1299 0031	3/4 P 1299 8007	consult us	
	3 P	1270 3004 ⁽⁴⁾⁽³⁾	1290 3004 ⁽⁴⁾⁽³⁾						
	4 P	1260 4004 ⁽⁴⁾⁽¹⁾	1280 4004 ⁽⁴⁾⁽¹⁾						
	4 P	1270 4004 ⁽⁴⁾⁽³⁾	1290 4004 ⁽⁴⁾⁽³⁾						
63 A	3 P	1260 3007 ⁽⁴⁾⁽¹⁾	1280 3007 ⁽⁴⁾⁽¹⁾						
	3 P	1270 3007 ⁽⁴⁾⁽³⁾	1290 3007 ⁽⁴⁾⁽³⁾						
	4 P	1260 4007 ⁽⁴⁾⁽¹⁾	1280 4007 ⁽⁴⁾⁽¹⁾						
	4 P	1270 4007 ⁽⁴⁾⁽³⁾	1290 4007 ⁽⁴⁾⁽³⁾						
125 A	3 P	1260 3013 ⁽¹⁾	1280 3013 ⁽¹⁾	Black IP65 1299 5032 Red/Yellow IP65 1299 5033	Black IP65 1299 6042 Red/Yellow IP65 1299 6043	1 contact NO+NC 1299 0021	3/4 P 1299 8013		
	3 P	1270 3013 ⁽³⁾	1290 3013 ⁽³⁾						
	4 P	1260 4013 ⁽¹⁾	1280 4013 ⁽¹⁾						
	4 P	1270 4013 ⁽³⁾	1290 4013 ⁽³⁾						
160 A	3 P	1260 3016 ⁽¹⁾	1280 3016 ⁽¹⁾						
	3 P	1270 3016 ⁽³⁾	1290 3016 ⁽³⁾						
	4 P	1260 4016 ⁽¹⁾	1280 4016 ⁽¹⁾						
	4 P	1270 4016 ⁽³⁾	1290 4016 ⁽³⁾						

(1) 230 VAC.

(2) This drilled pre-equipped enclosure enables immediate installation of a direct control rear mounted IDE without auxiliary contact, with protection rating of IP65.

(3) 400 VAC.

(4) Modular device.

(5) Modular handle.

➤ Accessories

Direct operation handle for base mounting

Rating (A)	Handle colour	External IP	Reference
32	Black	IP65	1299 5012
32	Red/Yellow	IP65	1299 5013
40 ... 63	Black	IP65	1299 6142 ⁽¹⁾
40 ... 63	Red/Yellow	IP65	1299 6143 ⁽¹⁾
125 ... 160	Black	IP65	1299 5032
125 ... 160	Red/Yellow	IP65	1299 5033

(1) Modular handle.

Rear-mounted empty enclosure for IDE with direct operation

Use

This drilled pre-equipped enclosure enables immediate installation of a direct control rear mounted IDE without auxiliary contact, with protection rating of IP65.

Rating (A)	Reference
32	1295 9001
40 ... 160	consult us

ide_002_a_1_cat



Door mounted

Rating (A)	No. of poles	Switch body Undervoltage coil	Switch body shunt trip coil	Direct handle	Auxiliary contact position	Terminal covers top/bottom (2 sets)
32 A	3 P	1210 3003 ⁽¹⁾		Black IP65 1299 5012 Red/Yellow IP65 1299 5013	1 contact NO+NC 1299 5001	3/4 P 1299 8003
	3 P	1220 3003 ⁽²⁾				
	4 P					
	4 P					
40 A	3 P	1210 3004 ⁽¹⁾	1230 3004 ⁽¹⁾	Black IP65 1299 5022 Red/Yellow IP65 1299 5023	1 contact NO+NC 1299 0031	3/4 P 1299 8007
	3 P	1220 3004 ⁽²⁾	1240 3004 ⁽²⁾			
	4 P	1210 4004 ⁽¹⁾	1230 4004 ⁽¹⁾			
	4 P	1220 4004 ⁽²⁾	1240 4004 ⁽²⁾			
63 A	3 P	1210 3007 ⁽¹⁾	1230 3007 ⁽¹⁾	Black IP65 1299 5022 Red/Yellow IP65 1299 5023	1 contact NO+NC 1299 0031	3/4 P 1299 8007
	3 P	1220 3007 ⁽²⁾	1240 3007 ⁽²⁾			
	4 P	1210 4007 ⁽¹⁾	1230 4007 ⁽¹⁾			
	4 P	1220 4007 ⁽²⁾	1240 4007 ⁽²⁾			
125 A	3 P	1210 3013 ⁽¹⁾	1230 3013 ⁽¹⁾	Black IP65 1299 5032 Red/Yellow IP65 1299 5033	1 contact NO+NC 1299 0021	3/4 P 1299 8013
	3 P	1220 3013 ⁽²⁾	1240 3013 ⁽²⁾			
	4 P	1210 4013 ⁽¹⁾	1230 4013 ⁽¹⁾			
	4 P	1220 4013 ⁽²⁾	1240 4013 ⁽²⁾			
160 A	3 P	1210 3016 ⁽¹⁾	1230 3016 ⁽¹⁾	Black IP65 1299 5032 Red/Yellow IP65 1299 5033	1 contact NO+NC 1299 0021	3/4 P 1299 8013
	3 P	1220 3016 ⁽²⁾	1240 3016 ⁽²⁾			
	4 P	1210 4016 ⁽¹⁾	1230 4016 ⁽¹⁾			
	4 P	1220 4016 ⁽²⁾	1240 4016 ⁽²⁾			

(1) 230 VAC.

(2) 400 VAC.

Direct operation handle for door mounting

Rating (A)	Handle colour	External IP	Reference
32	Black	IP65	1299 5012
32	Red/Yellow	IP65	1299 5013
40 ... 63	Black	IP65	1299 5022
40 ... 63	Red/Yellow	IP65	1299 5023
125 ... 160	Black	IP65	1299 5032
125 ... 160	Red/Yellow	IP65	1299 5033

Terminal shrouds



Use

Top or bottom protection
against direct contact with
terminals or connection parts.
Top and bottom pair.

Rating (A)	Position	Reference
32	top / bottom	1299 8003 ⁽¹⁾
40 ... 63	top / bottom	1299 8007 ⁽¹⁾
125 ... 160	top / bottom	1299 8013 ⁽¹⁾

(1) Reference composed of 2 pieces.

Position auxiliary contact



Use

Position 0 and I signalling NO+NC auxiliary contact

Connection to the control circuit

Per terminal.

Rating (A)	Mounting	Contact(s)	Reference
32	client	1 NO+NC	1299 5001
40 ... 63	client	1 NO+NC	1299 0031
125 ... 160	client	1 NO+NC	1299 0021
125 ... 160	factory	1 NO+NC	1299 0121

Characteristics

Rating (A)	Contact type	Nominal current (A)
32 ... 63	NO + NC	12
125 ... 160	NO + NC	5

External operation for rear mounting device

Use

Standard lengths: 200 mm.
Other lengths: consult us.

Shaft extension and black handle

Rating (A)	Shaft length (mm)	External IP	Reference
32	200	IP65	1299 6022
40 ... 63	200	IP65	1299 6032
125 ... 160	200	IP65	1299 6042

Shaft extension and red handle

Rating (A)	Shaft length (mm)	External IP	Reference
32	200	IP65	1299 6023
40 ... 63	200	IP65	1299 6033
125 ... 160	200	IP65	1299 6043

⇒ **Characteristics according to IEC 60947-3**

32 to 160 A

Thermal current I_{th} (40°C)	32 A	40 A	63 A	125 A	160 A
Rated insulation voltage U_i (V)	690	690	690	690	690

Rated operational currents I_e (A)

Rated voltage	Load duty category	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾
400 VAC	AC-21	32	40	63	125	160
400 VAC	AC-23	14	40	63	125	160
400 VAC	AC-3	14	30	44	100	100
690 VAC ⁽²⁾	AC-21 A	32	40	63	125	160

Motor power output (kW)

At 400 VAC without pre-break in AC-23 (kW) ⁽³⁾⁽¹⁾	7.5	22	30	63	80
At 400 VAC without pre-break in AC-3 (kW) ⁽³⁾⁽¹⁾	7.5	15	22	55	55

Short-circuit capacity

Rated short-time withstand current 1 s. I_{cw} (kA eff.)	1	1.5	1.5	2.5	2.5
Closing capacity on short-circuit (kA peak) ⁽⁴⁾	3	5.2	5.2	6.6	6.6

Connection

Minimum Cu cable section (mm ²)	1	2.5	2.5	6	6
Maximum Cu cable section (mm ²)	4	10	10	70	70

Mechanical characteristics

Durability (number of operating cycles)	100 000	60 000	60 000	30 000	30 000
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(1) Category with index A = frequent operation.

(2) With terminal shrouds or phase barrier.

(3) The power value is given for information only, the current values vary from one manufacturer to another.

(4) For a rated operational voltage U_n = 400 VAC.

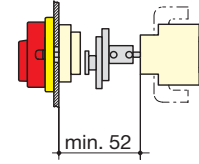
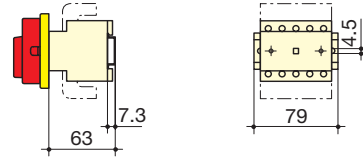
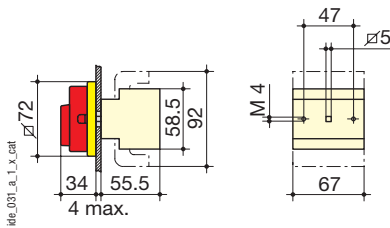
➤ Dimensions

IDE 32 A

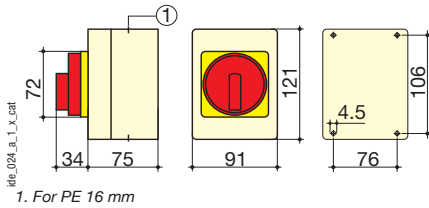
Direct operation with front door or panel

Direct operation with back DIN rail mounting

Door interlocked external front operation with DIN rail mounting



Enclosure for IDE 32 A

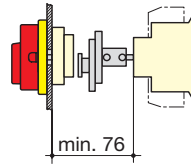
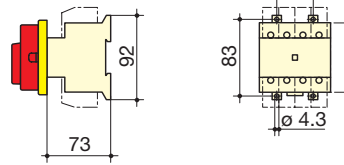
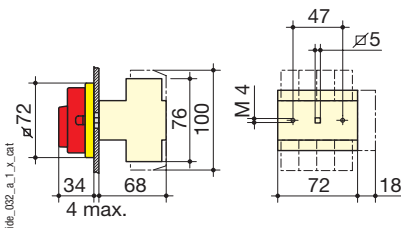


IDE 40 to 63 A

Direct operation with front door or panel

Direct operation with DIN rail or back plate base mounting

Door interlocked external front operation with DIN rail or back plate base mounting



IDE 125 to 160 A

Direct operation with front door or panel

Direct operation with DIN rail or back plate base mounting

Door interlocked external front operation with DIN rail or back plate base mounting

