

## ISOLATORS Series

### Switch-disconnectors

#### No. Reference SERIES

**590**



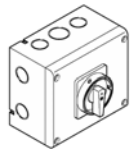
#### Versions



Flush mounting  
Engineering plastic

Emergency switching  
General use

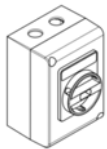
20A-32A



Surface mounting  
Engineering plastic

Emergency switching  
General use

20A-32A-40A  
63A-80A-100A  
125A-160A



Surface mounting  
Metal

Emergency switching  
General use

20A-32A-40A  
63A-80A-100A  
125A-160A

#### Reference standards

Standards: **CEI EN 60947-3**

#### Marking

#### Quality marks



#### TECHNICAL characteristics:

Rated current: **20A-32A-40A-63A-80A  
100A-125A-160A**

Protection degree: **IP55-IP65**

Operating temperature according  
to the reference standard: **-5°C+40°C**

Max operating temperature: **60°C**

Glow Wire test: **650°C**

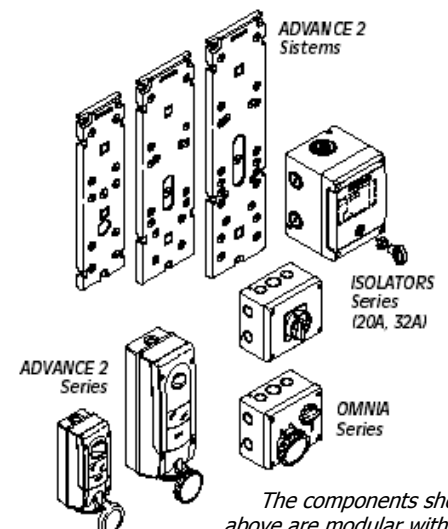
Material: **Engineering plastic/Metal**

IK degree at 20°C: **Engineering plastic versions:  
16A-32A: IK07  
40A-63A-80A-100A: IK08**

Cable inlet: **METRIC**

Colour: **Grey RAL 7035 (Engineering plastic)  
Grey RAL 7015 (Metal)**

Double insulation  : **YES**



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#### Behaviour with CHEMICAL and ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
RESISTANT	LIMITED RESISTANCE	RESISTANT	RESISTANT	RESISTANT	NOT RESISTANT	NOT RESISTANT	NOT RESISTANT	LIMITED RESISTANCE	RESISTANT	RESISTANT

#### Technical data ROTARY SWITCHES

			20A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation volatge $U_i$	Vac		690	690	690	690	690	800	750	750		
	Vdc		400	400	400	-	-	-	750	750		
Rated impulse withstand voltage $U_{imp}$		kV	4	4	4	8	8	8	8	12		
Thermal current $I_{th}$		A	30	40	40	63	85	100	125	200		
Thermal current $I_{the}$		A	30	40	40	63	85	-	125	160		
Nominal current rating $I_e$	AC21A	Resistite loads, including moderate overloads	400V	-	-	40	-	-	-	-	-	
		500V	A	-	-	-	-	-	-	-		
		690V		30	32	-	63	85	100	125	160	
	AC22A	Mixed resistite and inductive loads, including moderate overloads	400V	-	-	40	-	-	-	-	-	
		500V	A	-	-	-	-	-	-	-	-	
		690V		20	32	-	63	85	100	125	160	
	AC23A	Switching off motor loads or other highly inductive loads (3 phase/3 pole)	400V	-	-	-	50	67	80	90	135	
		500V	A	-	-	-	40	67	63	70	125	
		690V		16	25	25	30	38	50	50	80	
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase/3 pole)	400V	-	28,5	28,5	40	55	-	-	-	
		690V	A	12	20	20	25	32	-	-	-	
	DC21A	Resistite loads, including Moderate overloads	300V	25	32	32	-	-	-	125 (220V)	160 (220V)	
Mixed resistite and inductive loads, including moderate overloads		250V	20	32	32	-	-	-	80 (220V)	160 (220V)		
Rated short-time withstand current $I_{cw}$ (s)		A	400	400	400	1500	1500	1500	2500	4000		
Short-circuit protection:	Conditional short-circuit current		kA	10	10	10	10	-	40	12	25	
	Associate fuse size for conditional short-circuit current – Type gG		500V	A	16	32	40	63	-	80	100	200
	Rated short-circuit making capacity $I_{cm}$		A	1500	1500	1500	2850	2850	2100	3600	12000	
Permissible wire gauge:	Flexible wire	mm <sup>2</sup>		1,5-10	1,5-10	1,5-10	10-35	10-35	25-50	10-70	10-70	
		AWG		16-8	16-8	16-8	8-2	8-2	-	-	-	
	Rigid wire	mm <sup>2</sup>		1,5-16	1,5-16	1,5-16	10-35	10-35	25-50	-	-	
		AWG		16-6	16-6	16-6	8-2	8-2	-	-	-	