

SWITCH AND SWITCH-DISCONNECTORS

REFERENCE STANDARDS

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS



EN 60947-3
Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors
and fuse-combination unit.

QUALITY MARKS



VERSIONS

Surface mounting - Engineering plastic

Surface mounting - Metal

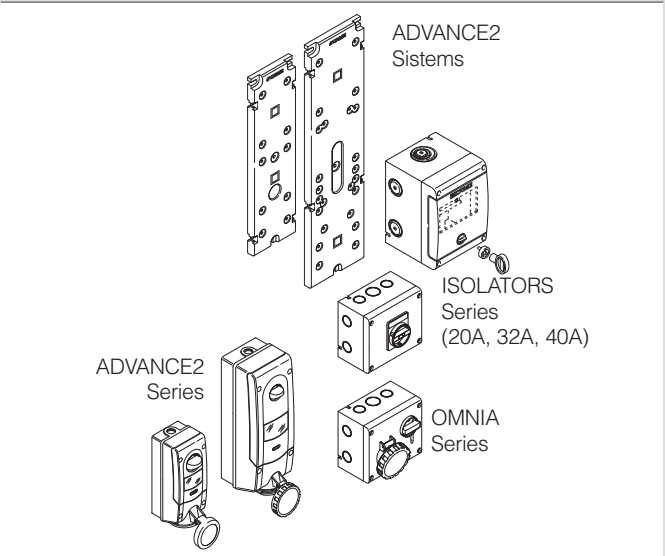
TECHNICAL CHARACTERISTICS

Polarity:	1P-2P-3P-4P
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: 20A-32A-40A: IK07 63A-80A-100A: IK08
Cable inlet:	METRIC
Colour:	Grey RAL 7035 (Engineering plastic) Grey RAL 7015 (Metal)

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

CABLE INLETS

Engineering plastic versions	Metal versions
Enclosure 20A, 32A and 40A (82x120x69) - Upper surface: 1xM20 + 1xM25 - Lower surface: 1xM20 + 1xM25 - Back surface: 2xM20	Enclosure 20A, 32A and 40A (105x150x82) - Upper surface: 1xM20 + 1xM25 - Lower surface: 1xM20 + 1xM25
Enclosure 20A, 32A and 40A (136x125x84) - Upper surface: 1xM20 + 1xM25 - Lower surface: 1xM20 + 1xM25	Enclosure 63A, 80A and 100A (150x210x106) - Upper surface: 2xM32 - Lower surface: 2xM32
Enclosure 20A, 32A and 40A (105x150x82) - Upper surface: 1xM20 + 1xM25 - Lower surface: 1xM20 + 1xM25	Enclosure 125A (315x264x122), and 160A (410x315x150) - Blank side
Enclosure 63A, 80A and 100A (210x155x107) - Upper surface: 2xM25/M32 - Lower surface: 2xM25/M32	
Enclosure 125A (300x220x120), and 160A (380x300x120) - Blank side	



(The components shown above are modular with the engineering plastic version only)

1 PLUGS AND SOCKETS 2 3

(▲) Single pole switch, not suitable to receive door-locking kit.
(*) OMNIA Series enclosure.

20A	800V	dc	590.DCEM0820	590.DCGE0820
	1000V	dc	590.DCEM1020	590.DCGE1020
25A	800V	dc	590.DCEM0825	590.DCGE0825
30A	800V	dc	590.DCEM0830	590.DCGE0830
	1000V	dc	590.DCEM1030	590.DCGE1030
40A	800V	dc	590.DCEM0840	590.DCGE0840
63A	1000V	dc	590.DCEM1063	590.DCGE1063

ISOLATORS Series

Switch-disconnectors enclosed

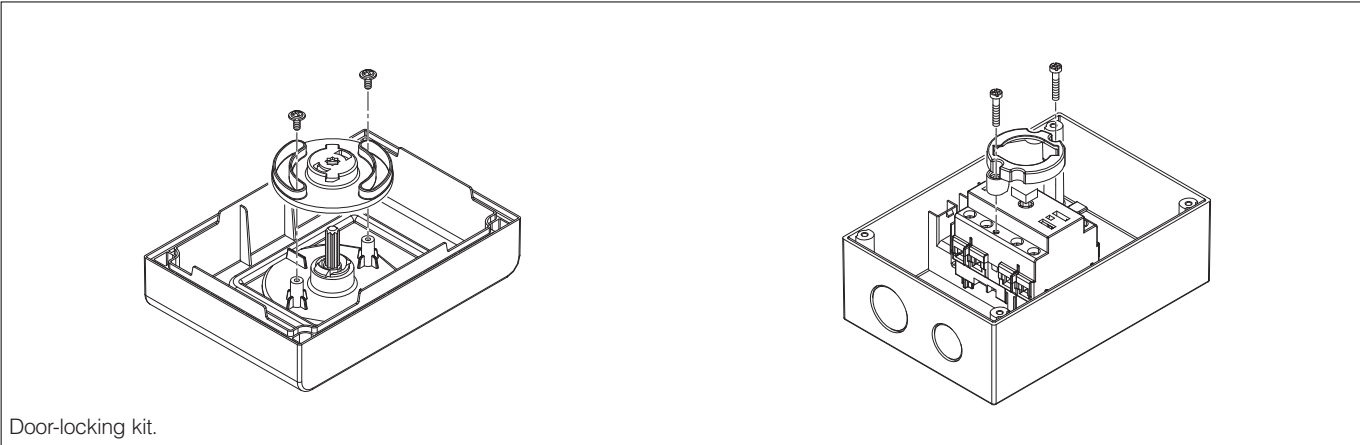
SURFACE MOUNTING - METAL VERSION

											
Poles	Enclosure dimensions (mm)	Protection degree		EMERGENCY SWITCHING 	GENERAL USE 	EMERGENCY SWITCHING 	GENERAL USE 	EMERGENCY SWITCHING 	GENERAL USE 		
16A	6	150x210x106	IP65	1/12	_____	590.HEM1606	590.HGE1606	_____	_____		
	8				590.HEM1608	590.HGE1608	_____	_____			
20A	2	150x120x106	IP65	1/12	590.HEM2002	590.HGE2002	_____	_____			
	3				590.HEM2003	590.HGE2003	_____	_____			
	4				590.HEM2004	590.HGE2004	_____	_____			
25A	6	105x150x82	IP65	1/12	_____	590.HEM2506	590.HGE2506	_____	_____		
	8				590.HEM2508	590.HGE2508	_____	_____			
32A	2	105x150x82	IP65	1/12	590.HEM3202	590.HGE3202	_____	_____			
	3				590.HEM3203	590.HGE3203	_____	_____			
	4				590.HEM3204	590.HGE3204	_____	_____			
	6	150x210x106	IP65	1/12	_____	590.HEM3206	590.HGE3206	_____	_____		
8	590.HEM3208				590.HGE3208	_____	_____				
40A	2	105x150x82	IP65	1/12	590.HEM4002	590.HGE4002	_____	_____			
	3				590.HEM4003	590.HGE4003	_____	_____			
	4				590.HEM4004	590.HGE4004	_____	_____			
	6	150x210x106	IP65	1/12	_____	590.HEM4006	590.HGE4006	_____	_____		
8	590.HEM4008				590.HGE4008	_____	_____				
63A	2	150x210x106	IP65	1/5	_____	590.HEM6302	590.HGE6302	_____	_____		
	3				590.HEM6303	590.HGE6303	_____	_____			
	4				590.HEM6304	590.HGE6304	_____	_____			
	6	315x264x122	IP65	1/5	_____	_____	590.HEM6306	590.HGE6306	_____	_____	
8	_____				_____	590.HEM6308	590.HGE6308	_____	_____		
80A	2	150x210x106	IP65	1/5	_____	590.HEM8002	590.HGE8002	_____	_____		
	3				590.HEM8003	590.HGE8003	_____	_____			
	4				590.HEM8004	590.HGE8004	_____	_____			
	6	315x264x122	IP65	1/5	_____	_____	590.HEM8006	590.HGE8006	_____	_____	
8	_____				_____	590.HEM8008	590.HGE8008	_____	_____		
100A	3	150x210x106	IP65	1/5	_____	590.HEM10003	590.HGE10003	_____	_____		
	4				590.HEM10004	590.HGE10004	_____	_____			
	6	315x264x122	IP65	1/5	_____	_____	590.HEM10006	590.HGE10006	_____	_____	
8	_____				_____	590.HEM10008	590.HGE10008	_____	_____		

								
	Poles	Enclosure dimensions (mm)	Protection degree		EMERGENCY SWITCHING 	GENERAL USE 	EMERGENCY SWITCHING 	GENERAL USE 
125A	3	315x264x122	IP65	1/5	590.HEM12503	590.HGE12503		
	4				590.HEM12504	590.HGE12504		
	6	410x315x150	IP65	1/5			590.HEM12506	590.HGE12506
	8						590.HEM12508	590.HGE12508
160A	3	410x315x150	IP65	1			590.HEM16003	590.HGE16003
	4						590.HEM16004	590.HGE16004
	6						590.HEM16006	590.HGE16006
	8						590.HEM16008	590.HGE16008

DOOR-LOCKING KIT

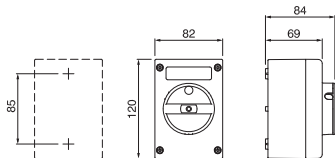
Description	Rotary switches	1/2	
Suitable for engineering plastic enclosure	20A, 32A, 40A	1/12	590.BK040
	63A, 80A	1/5	590.BK080
Suitable for metal enclosure	20A, 32A, 40A	1/12	590.BK040H
	63A, 80A	1/5	590.BK080H



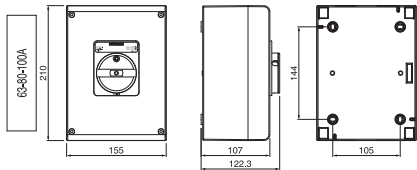
DIMENSIONS

1
2
3
PLUGS AND SOCKETS

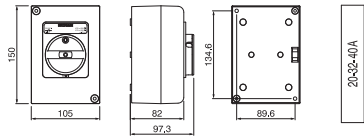
ENCLOSURE 20A - 32A - 40A (82X120X69)



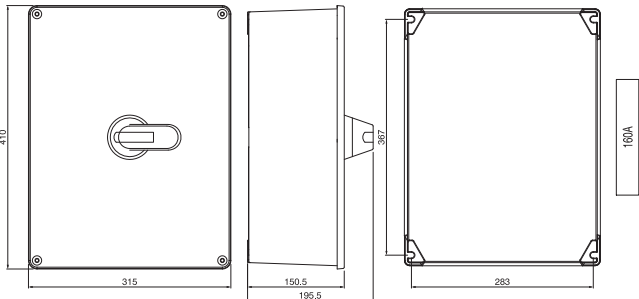
ENCLOSURE 63A - 80A - 100A (210X155X107)



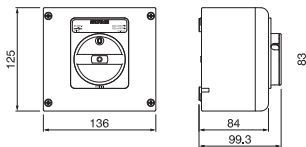
ENCLOSURE 20A - 32A - 40A (105X150X82)



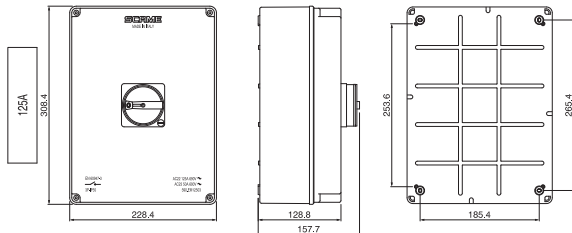
ENCLOSURE 160A (410X315X150)



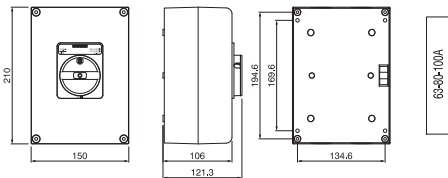
ENCLOSURE 20A - 32A - 40A (136X125X84)



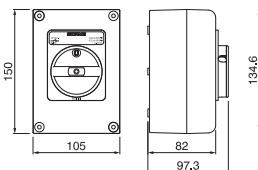
ENCLOSURE 125A (300X220X120)



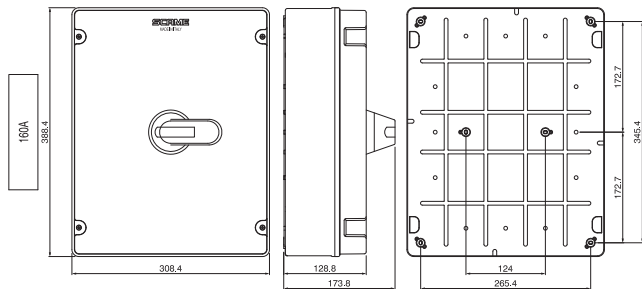
ENCLOSURE 63A - 80A - 100A (150X210X106)



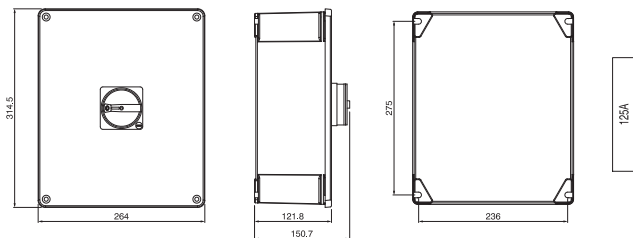
ENCLOSURE 20A - 32A - 40A (105X150X82)



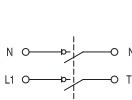
ENCLOSURE 160A (380X300X120)



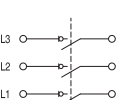
ENCLOSURE 125A (315X260X110)



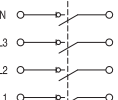
2P SWITCH



3P SWITCH



4P SWITCH



(Dimensions in mm)

(Dimensions in mm)