


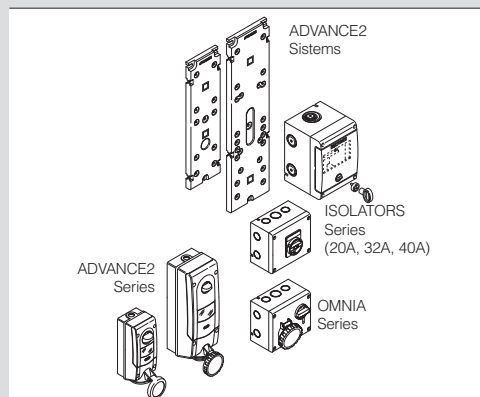


## ■ SWITCH AND SWITCH-DISCONNECTORS



## ■ VERSIONS

	Flush mounting - Engineering plastic
	Surface mounting - Engineering plastic
	Surface mounting - Metal



## ■ REFERENCE STANDARDS

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

## ■ QUALITY MARKS



## ■ TECHNICAL CHARACTERISTICS

Polarity:	<b>1P-2P-3P-4P</b>
Rated current:	<b>20A-32A-40A-63A-80A 100A-125A-160A</b>
Protection degree:	<b>IP55-IP65</b>
Operating temperature according to the reference standard:	<b>-5°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>650°C</b>
Material:	<b>Engineering plastic/Metal</b>
IK degree at 20°C:	<b>Engineering plastic versions: 20A-32A-40A: IK07 63A-80A-100A: IK08</b>
Cable inlet:	<b>METRIC</b>
Colour:	<b>Grey RAL 7035 (Engineering plastic) Grey RAL 7015 (Metal)</b>

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

## ■ 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

## ■ 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	

## ■ APPLICATION EXAMPLES



TECHNICAL DATA SWITCHES (1 POLE)

		20A		32A		40A	
Rated insulation voltage <b>Ui</b>		Vac	250		250		250
Rated impulse withstand voltage <b>Uimp</b>		kV	4		4		4
Thermal current <b>Ith</b>		A	20		32		40
Thermal current <b>Ithe</b>		A	20		32		40
Nominal current rating <b>Ie</b>	<b>AC22A</b> Mixed resistive and inductive loads, including moderate overloads	250V A	20		32		40
	<b>AC23A</b> Switching off motor loads or other highly inductive loads (3 phase/3 pole)	250V A	16		20		25
Rated short-time withstand current <b>Icw</b> (s)			480		480		480
Short-circuit protection:	Conditional short-circuit current	kA	10		10		10
	Associate fuse size for conditional short-circuit current - Type gG	500 V kA	20		32		40
	Rated short-circuit making capacity <b>Icm</b>	kA	1500		1500		1500
Permissible wire gauge:	Flexible wire	mm²	6		6		6
	Rigid wire	mm²	6		6		6

TECHNICAL DATA SWITCH-DISCONNECTOR (2, 3, 4 POLES)

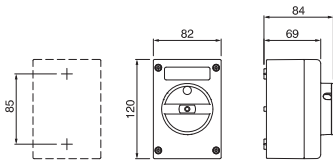
					without fuse								
					16A	32A	40A	63A	80A	100A	125A	165A	
Rated insulation voltage <b>Ui</b>					V <sub>AC</sub> V <sub>DC</sub>	690 600	690 600	690 600	690 -	690 -	690 -	750 750	750
Rated impulse withstand voltage <b>Uimp</b>					kV	4	4	4	8	8	8	8	12
Thermal current <b>Ith</b>					A	30	40	40	63	86	100	125	200
Thermal current <b>Ithe</b>					A	30	40	40	63	86	86	125	150
IEC Rating	AC21A	Resistive loads, including moderate overloads	400V	A	-	-	40	-	-	-	-	-	-
			500V	A	-	-	-	-	-	-	-	-	-
			690V	A	30	32	-	63	80	100	125	160	
	AC22A	Mixed resistive and inductive loads, including moderate overloads	400V	A	-	-	40	-	-	-	-	-	-
			500V	A	-	-	-	-	-	-	-	-	-
			690V	A	20	32	-	63	80	86	125	160	
	AC23A	Switching off motor loads or other highly inductive loads (3 phase / 3 pole)	400V	A	20	32	35	63	67	67	90	135	
			415V	A	20	32	35	63	67	-	-	-	
			500V	A	-	-	-	40	67	67	70	125	
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	690V	A	16	25	25	30	38	38	50	80	
			400V	A	-	28.5	28.5	40	55	55	-	-	
			690V	A	12	20	20	25	32	32	-	-	
	DC21A	Resistive loads, including moderate overloads	300V	A	20	32	32	-	-	-	125 (220V)	160 (220V)	
	DC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	25	32	32	-	-	-	80 (220V)	160 (220V)	
			600V	A	10(1*)	10(1*)	10(1*)						
Rated short-time withstand current <b>Icw</b> (s)					A	400	400	400	1500	1500	1500	2500	4000
Short-circuit protection:	Conditional short-circuit current				kA <sub>eff</sub>	10	10	10	10	10	10	12	25
	Associate fuse size for conditional short-circuit current - Type gG				A	16	32	40	63	80	-	100	200
	Rated short-circuit making capacity: <b>Icm</b>				A	1500	1500	1500	2850	2850	2100	3600	1200
UL rating	General use single phase and 3 phase		600V	A	32	40	-	63	80	100	-	-	
	AC motor starting break all line single phase	120V	Hp	1.5	2	-	3	3	3	-	-		
		240V	Hp	3	5	-	7.5	7.5	10	-	-		
	AC motor B, C, D starting break all lines three phase	240V	Hp	7.5	10	-	10	10	10	-	-		
		480V	Hp	10	15	-	20	25	25	-	-		
		600V	Hp	15	20	-	25	30	30	-	-		
Permissible wire gauge:	Flexible wire	mm²	1,5 - 10	1,5 - 10	1,5 - 10	10-35	10-35	10-35	10-70	10-70			
		AWG	16 - 8	16 - 8	16 - 8	10-2	10-2	10-2					
	Flexible wire	mm²	1,5 - 16	1,5 - 16	1,5 - 16	10-35	10-35	10-35					
	AWG	16-8	16-8	16-8	10-2	10-2	10-2						

(\*) 2+2 poles in series IMQ approved UL approved

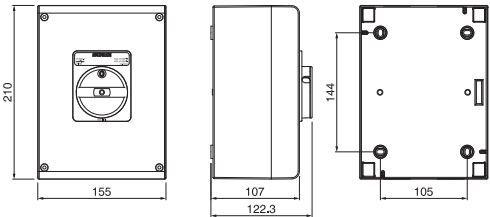
DIMENSIONS - ENGINEERING PLASTIC VERSIONS

CATALOGUE SECTION: 1.4

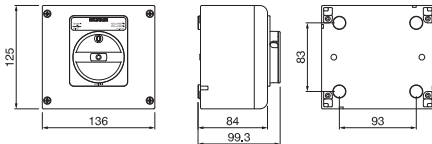
ENCLOSURE 20A - 32A - 40A (82x120x69)



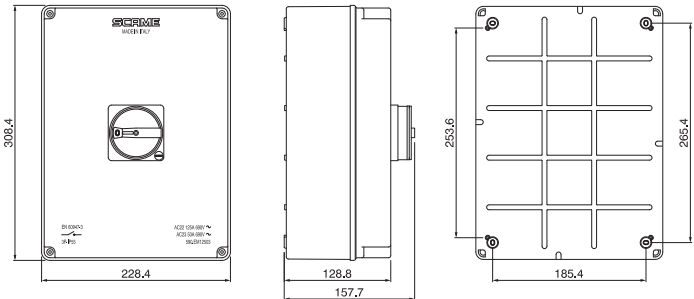
ENCLOSURE 63A - 80A - 100A (210x155x107)



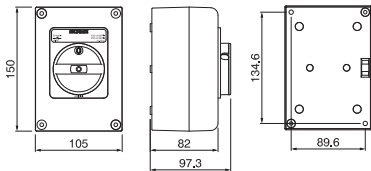
ENCLOSURE 20A - 32A - 40A (136x125x84)



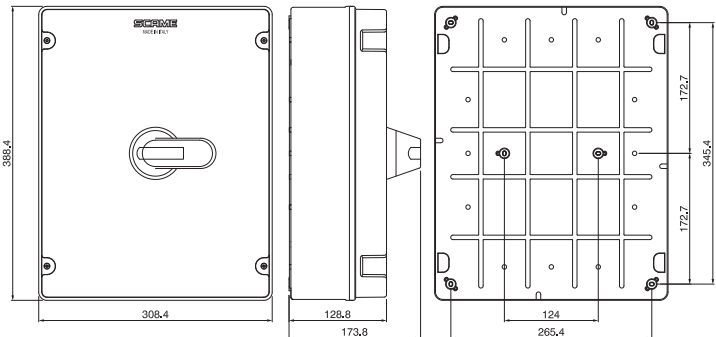
ENCLOSURE 125A (300x220x120)



ENCLOSURE 20A - 32A - 40A (105x150x82)



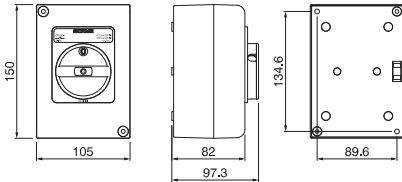
ENCLOSURE 160A (380x300x120)



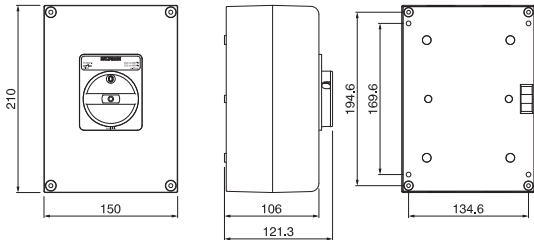
DIMENSIONS - METAL VERSIONS

CATALOGUE SECTION: 1.4

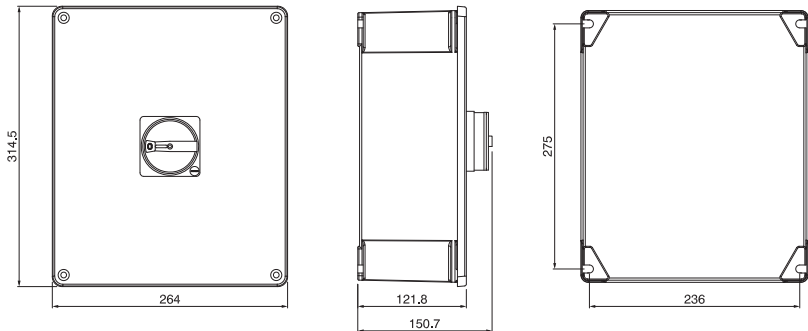
ENCLOSURE 20A - 32A - 40A (105x150x82)



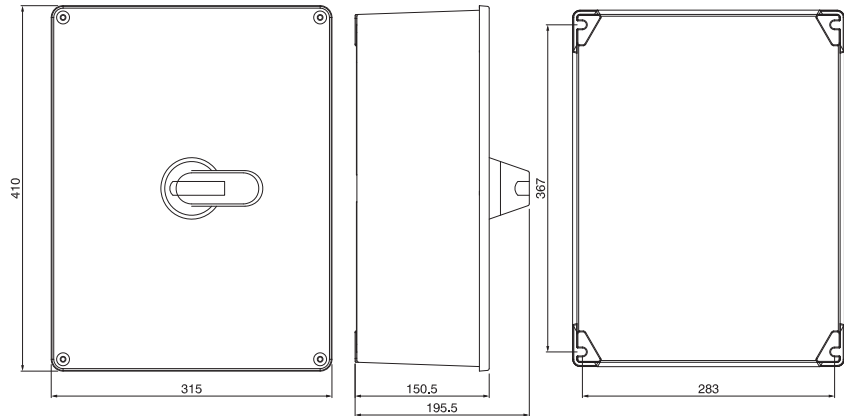
ENCLOSURE 63A - 80A - 100A (150x210x106)



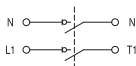
ENCLOSURE 125A (315x260x110)



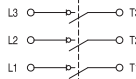
ENCLOSURE 160A (410x315x150)



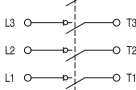
2P SWITCH



3P SWITCH



4P SWITCH



(Dimensions in mm)

(Dimensions in mm)