



**3.1**

## **Distribution assemblies**

■ **MBOX Series**

■ **MEGA Series**





# MBOX Series

1

2

3

ASSEMBLIES



## DISTRIBUTION ASSEMBLIES - IP66



## VERSIONS



- MBOX2**
- Portable
  - Wall installation
  - Trestle installation
  - Turret installation
  - Pole fastening



- MBOX3**
- Portable
  - Wall installation
  - Trestle installation
  - Pole fastening



- MBOX5**
- Wall installation
  - Trestle installation
  - Pole fastening
  - Portable with two folding handles

## REFERENCE STANDARDS

### EN 60670-1

Boxes and enclosure for electrical accessories for household and similar fixed electrical installation.  
*Part 1: general requirements.*

### EN 60439-1

Low-voltage switchgear and control-gear assemblies (BT panels).  
*Part 1: requirements for type-tested and partially type-tested assemblies.*

### EN 60439-4

Low-voltage switchgear and control-gear assemblies (BT panels).  
*Part 4: particular requirements for assemblies for construction sites.*

## QUALITY MARKS



## TECHNICAL CHARACTERISTICS COMMON TO THE ENTIRE PRODUCT LINE

Protection degree:	<b>IP66-IP65 (version with emergency button)</b>
Operating temperature according to the reference standard:	<b>-25°C +40°C</b>
Max. operating temperature:	<b>60°C</b>
Glow Wire test:	<b>650°C</b>
IK degree at 20°C:	<b>IK08-IK09</b>
Material:	<b>Engineering plastic</b>
Total insulation $\square$ :	<b>Yes</b>
Dissipable power according to CEI 23-49 standard:	<b>-</b>

## MBOX2 TECHNICAL CHARACTERISTICS

Dimensions: **432x365x290 mm**  
 Power supply: **With 16mm<sup>2</sup> terminal box (5 poles) or with mobile (16/32A)**  
 Cable length: **2m**  
 Cable entry: **M32 or M25 break-through input and cable for power supply and M16 break-through for earthing cable**

- Switchboard for 16 DIN modules (2 rows of 8 modules) with tinted door and YALE key or triangular lock.

- Possibility to install up to 4 interlocked OMNIA Series 16/32A socket with or without fuses or up to 6 flush mounting EUREKA Series 16/32A sockets
- Possibility to install the panel on turret or trestle
- Possibility to install the emergency push button
- Fuse-testing device housed in the switchboard compartment (only in the versions with fuses)
- Possibility to house three spare fuses

## MBOX3 TECHNICAL CHARACTERISTICS

Dimensions: **465x380x520mm**  
 Average weight: **15 Kg**  
 Power supply: **Cable input through hole for M40 cable gland.**

- M8 brass pin for earthing connection.
- 16 mm<sup>2</sup> power supply terminal box (5 poles) for currents up to 32A and 35 mm<sup>2</sup> terminal box (5 poles) for currents up to 125A.
- Possibility to equip the panel with a 63A or 125A fixed plug.

- Switchboard for 39 DIN modules (3 rows of 13 modules) with tinted door and YALE key or triangular lock.
- Possibility to install up to 6 interlocked OMNIA Series 16/32A sockets with or without fuses or up to 9 flush mounting EUREKA Series 16/32A sockets.
- In the version without door it is possible to install up to 4 interlocked OMNIA Series 16/32A sockets and an interlocked OMNIA Series 63A socket.
- Fuse-testing device inserted in the switchboard compartment
- Possibility to install the emergency push button or a disconnecter with functional control and emergency functions.

## MBOX5 TECHNICAL CHARACTERISTICS

Dimensions: **775x400x670mm**  
 Average weight: **27 Kg**  
 Power supply: **Cable input through hole for M40 cable gland.**

- M8 brass pin for earthing connection
- 16 mm<sup>2</sup> power supply terminal box (5 poles) for currents up to 32A and 35 mm<sup>2</sup> terminal box (5 poles) for currents up to 125A
- Possibility of 70 mm<sup>2</sup> input/output terminal box (5 poles).
- Possibility to equip the panel with a 63A or 125A fixed plug.
- Switchboard for 52 DIN modules (4 rows of 13 modules) with tinted door and YALE key or triangular lock.

- Possibility to install up to 12 interlocked OMNIA Series sockets and 4 interlocked ADVANCE2 Series compact or large 16/32/63A sockets.
- Output terminal box: it is possible to install the OMNIA Series containers n. 572.0321 and n. 572.0322 respectively for terminal box output with or without protection (6 DIN modules).
- Fuse-testing device inserted in the switchboard compartment.
- Possibility to house five spare fuses.
- Possibility to install the emergency push button or a disconnecter with functional control and emergency functions.



## 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	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

# MBOX Series

## DIMENSIONS

1

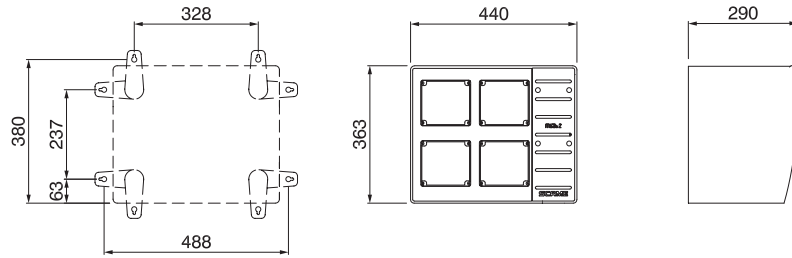
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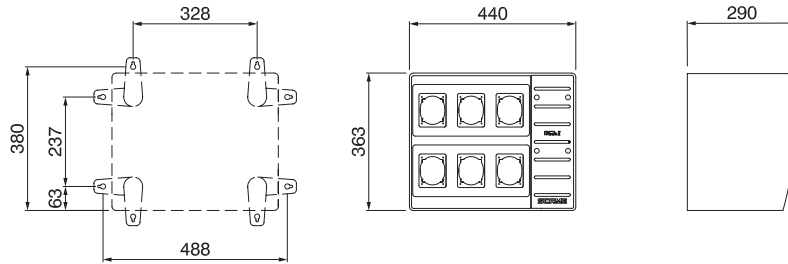
ASSEMBLIES



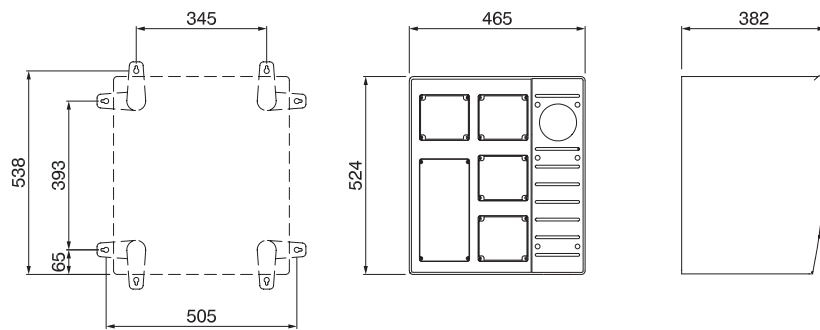
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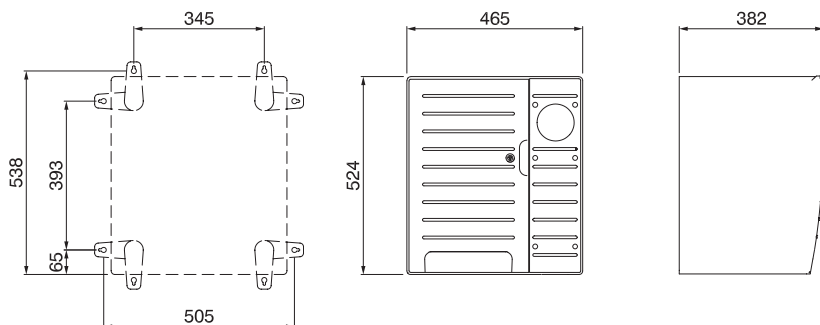
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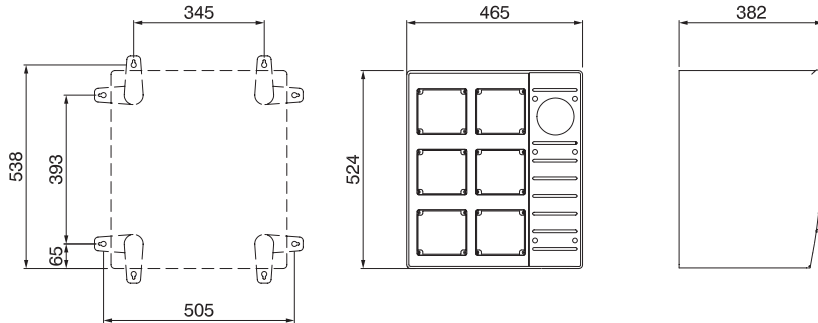
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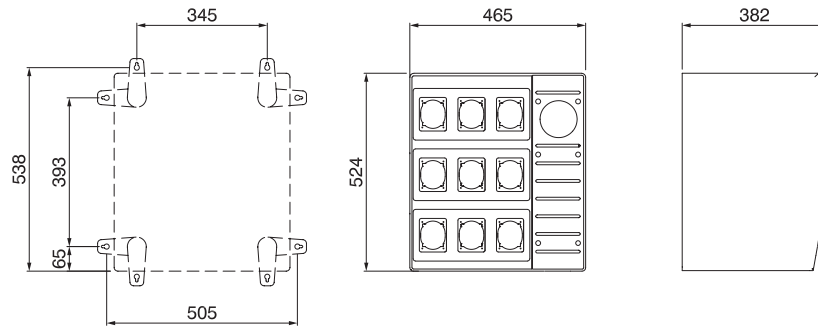
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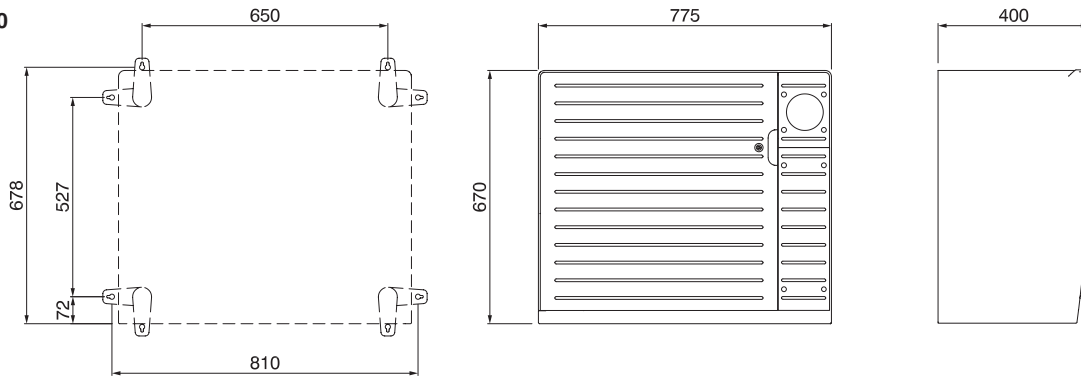
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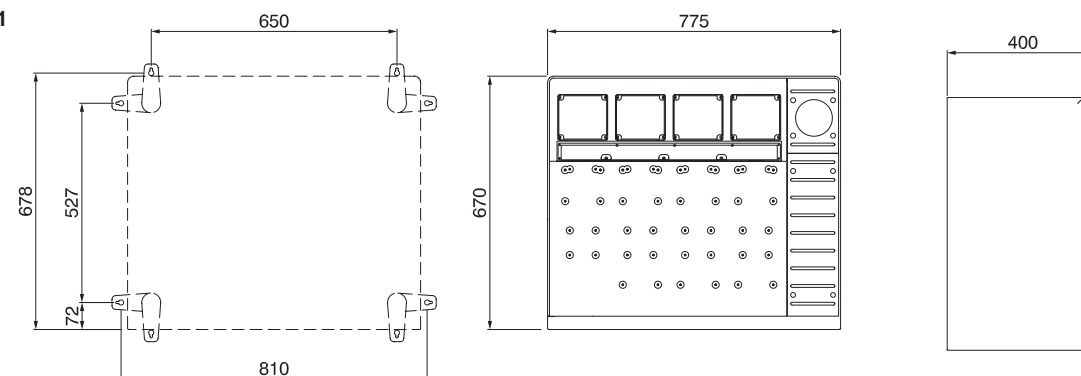
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COD. 658.0050



COD. 658.0051



# MBOX System - IP66

## empty distribution assemblies

### EMPY DISTRIBUTION ASSEMBLIES FLANGE 70x87

1

2

3

ASSEMBLIES



Type	Housing	Power	With door	With light	Dissipated power (*)			WITH EMERGENCY PUSH BUTTON
MBOX2	6 sockets	16-32A	NO	YES	29W	1	<b>656.0026-000</b>	<b>656.0926-000</b>



Type	Housing	Power	With door	With light	Dissipated power (*)		BLANK PLATE	WITH EMERGENCY PUSH BUTTON
MBOX3	9 sockets	16-32A	YES	YES	-	1	<b>657.0038-000</b>	<b>657.0938-000</b>

(\*) According to CEI 23-49 italian standard.



### Night & day

MBOX turns on a new era with a box that is even more functional and complete. The addition of an automatic device (LED with extremely low consumption hooked up to a sensor) ensures proper lighting of the compartment containing outlets and switch gear and protection devices when the outdoor light intensity diminishes. This allows the product to be identified and used under conditions of poor lighting: ideal for the worksite, MBOX is also perfect for campsites and parking areas.

Extremely compact and totally safe, MBOX features an innovative design and it is made in collision-proof and self-extinguishing technopolymer, to withstand collisions and atmospheric agents. In compliance with the highest safety standards, the MBOX series includes a complete product range and comes in many customized versions, with fast delivery.



**Flush mounting plugs and sockets**  
From page 22



**Sockets for domestic applications**  
From page 25

**EMPY DISTRIBUTION ASSEMBLIES FLANGE 136x125**


Type	Housing	Power	With door	With light	Dissipated power (*)		BLANK PLATE	WITH EMERGENCY PUSH BUTTON
MBOX2	4 sockets	16-32A	NO	YES	27W	1	<b>656.0024-000</b>	<b>656.0924-000</b>



Type	Housing	Power	With door	With light	Dissipated power (*)		BLANK PLATE	WITH EMERGENCY PUSH BUTTON
MBOX3	5 sockets	16-32-63A	NO	YES	-	1	<b>657.0035-000</b>	<b>657.0935-000</b>
	6 sockets	16-32A	YES	YES	-	1	<b>657.0036-000</b>	<b>657.0936-000</b>



Type	Housing	Power	With door	With light	Dissipated power (*)		BLANK PLATE	WITH EMERGENCY PUSH BUTTON
MBOX5	12 sockets	16-32A	YES	YES	-	1	<b>658.0050-000</b>	<b>658.0950-000</b>

(\*) According to CEI 23-49 italian standard.

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You will quickly find an assemblies already assembled, certified and ready to use.


**Switched socket outlets with interlock**  
 From page 31










**Interlocked socket for domestic use**  
 From page 27



# MBOX System - IP66 distribution assemblies

## INDUSTRIAL SOCKETS

**1**  
**2**  
**3**  
**ASSEMBLIES**

		OUTPUT UNIT										POWER SUPPLY							
		INDUSTRIAL SOCKETS								OUTPUT PROTECTION				INPUT PROTECTION					
N° Sockets	Type	16A				32A			63A			MCB				RCD	Main switch		Power
											16A				30mA	SW DISC.	MCB	MAX	
		2P	2P+E	3P+E	3P+N+E	2P+E	3P+E	3P+N+E	3P+E	3P+N+E	1P	2P	3P	4P	3P	A	A	A	kW (▲)
6	MBOX2		6								6				40		32	<b>18</b>	
			4	2							3	1			40		32	<b>18</b>	
9	MBOX3		9							9					63		63	<b>35</b>	
			5	2	2					5		2			63		63	<b>35</b>	
			3	2	2		1	1			3		2	2	63		63	<b>35</b>	



### Distribution ACS

- The protection at the sockets is realized for the most part with MCB switches.
- Available sockets: EUREKA Series.

- The version with terminal block are supplied with wall bracket kit.
- The version with cable and plug are supplied with a cable support kit.
- Versions with "Type A" RCD switch are also available on request.

		INPUT UNIT					
		WITH TERMINAL BLOCK			WITH PLUG		
With door	Polarity	IP66	and emergency push button-IP65	Plug		IP66	and emergency push button-IP65
				Polarity	A		
	3P+N+E	<b>656.7026-639</b>	<b>656.7926-639</b>	3P+N+E	32	<b>656.7126-639</b>	<b>656.7826-639</b>
	3P+N+E	<b>656.7026-640</b>	<b>656.7926-640</b>	3P+N+E	32	<b>656.7126-640</b>	<b>656.7826-640</b>
x				3P+N+E	63		<b>657.8839-825</b>
x				3P+N+E	63		<b>657.8839-826</b>
x				3P+N+E	63		<b>657.8839-827</b>



**MBOX2 Series**



**MBOX3 Series**

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You will quickly find an assemblies already assembled,  
 certified and ready to use.



**Note**

This is just a small selection of our full range.  
 Please contact your SCAME dealer for  
 specific versions.

MCB = Miniature circuit breaker.  
 SW DISC. = Switch-disconnector.  
 RCD= Residual current device.

(▲) Power drawable when not in continuous service.



**Night & Day**

Standard on all version MBOX3 and MBOX5.  
 On request on MBOX2 versions.



# MEGA Series

## ■ DISTRIBUTION ASSEMBLIES

1

2

3

ASSEMBLIES



## ■ VERSIONS



- Distribution assemblies IP55
- transportable
  - with SELV safety transformer 220/24V

## ■ REFERENCE STANDARDS

### EN 60439-1

Low-voltage switchgear and control-gear assemblies (BT panels).  
*Part 1: requirements for type-tested and partially type-tested assemblies.*

### EN 60439-4

Low-voltage switchgear and control-gear assemblies (BT panels).  
*Part 4: particular requirements for assemblies for construction sites.*

## ■ TECHNICAL CHARACTERISTICS

Rated current:	<b>125A÷630A</b>
Rated voltage:	<b>400V~</b>
Frequency:	<b>50Hz</b>
Insulating voltage:	<b>400V~</b>
Protection degree:	<b>IP55</b>
SELV transformer 220/24V:	<b>Yes</b>
Operating temperature according to the reference standard:	<b>-25°C +40°C</b>
Max operating temperature:	<b>60°C</b>
Glow Wire test:	<b>650°C</b>
Power output:	<b>70KW÷375KW</b>
Material:	<b>Engineering plastic</b>
Colour:	<b>Grey RAL 9007</b>

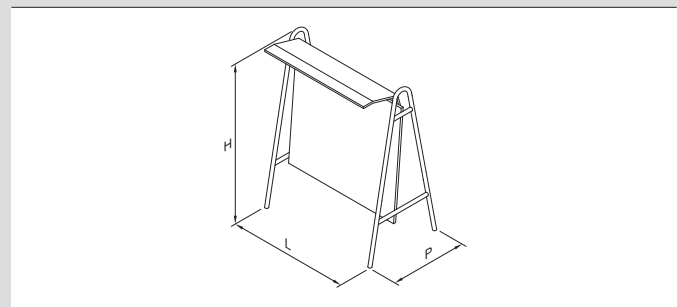
- Sturdy galvanized fire painted sheet iron.
- Fitted with a lifting device, handles on the side and a roof to protect it from rain or falling objects.
- The structure can be fastened to the ground (purposely fitted feet).
- Appropriate hooks are fitted at the back to carry the cables.

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant











## DIMENSIONS

TYPE	L	P	H
A	1050	760	1500
B	1190	872	1600
C	1810	872	1600



# MEGA Series - IP55 distribution assemblies

## DISTRIBUTION ASSEMBLIES

ASSEMBLIES	OUTPUT UNIT														POWER SUPPLY			
	INTERLOCKED SWITCH SOCKETS OUTLET										TERMINAL BLOCK					Padlockable main switch (4P)		
	16A		32A		63A		125A		400A		16A	20A	32A	63A			100A	160A
N° Sockets											380V 4P							
4					1		3							2 <sup>(*)</sup>	1 <sup>(*)</sup>	1 <sup>(*)</sup>		SW. DISC. 630A SW. DISC. 250A
7													2	4 <sup>[5]</sup>	1(125A) <sup>(*)</sup>			MCB 250A SW. DISC. 250A
8		2	2		2		1			1 <sup>(*)</sup>								SW. DISC. 400A
9		2	2		2		1					2 <sup>(2P)</sup> 2	2	2	1(125A) <sup>(*)</sup>			SW. DISC. 400A
11		4	4											1 <sup>[4]</sup> 1(3P) <sup>[4]</sup>	1 <sup>[4]</sup>			MCB 160A
		2	2								4(2P)			1(40A)	1(50A)	1(80A)		MCB 160A
12	2	4	2		2		1		1 <sup>(*)</sup>									SW. DISC. 400A
14		1	1	1	1(3P+E)									1 <sup>[4]</sup>	6(40A) <sup>[4]</sup> 3 <sup>[4]</sup>			SW. DISC. 630A

### Note

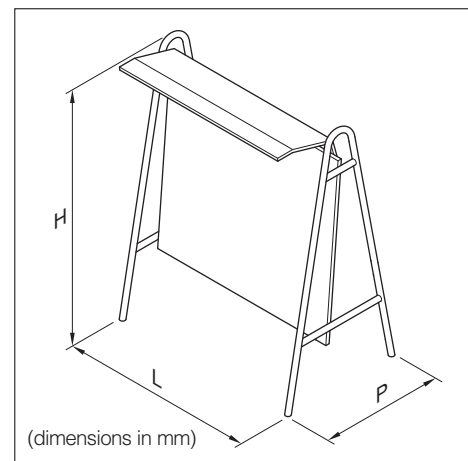
This is just a small selection of our full range.  
Please contact your SCAME dealer for  
specific versions.

#### Distribution ACS

- Outputs protected individually or in groups by magnetothermal switch and by differential switch 0.03A (a note in the legend indicates a different operating current).
- 24V sockets protected with magnetothermal switch or fuses suited to the transformer power.

- Power supply: 3P+N+E 400V 50Hz.
- Main terminal block for "In-Out" connection.

INPUT UNIT							
POWER SUPPLY							
Terminal block mm <sup>2</sup>	Power MAX (▲) (Kw)	Short-circuit current (Icw) (KA)	Short-circuit current (Icc) (KA)	Emergency push button	Stand type	Weight Kg	
4 x 160	230	20			C	210	<b>661.0314-017</b>
4 x 100	130	8,5			A	120	<b>661.5250-066</b>
4 x 160	150		15	x	C	170	<b>661.0250-042</b>
4 x 100	110	8,5			A	110	<b>661.5250-007</b>
4 x 160	200	20			C	150	<b>661.0314-011</b>
4 x 160	200	20			C	200	<b>661.0400-021</b>
4 x 100	150		10		C	20	<b>661.0400-009</b>
4 x 100	90		10	x	C	150	<b>661.0160-075</b>
4 x 100	90		10		B	130	<b>661.0160-057</b>
4 x 160	200	20			C	220	<b>661.0314-015</b>
4 x 250	300	20			C	200	<b>661.0630-047</b>



**Stand Dimension**

Type	L	P	H
<b>A</b>	1050	760	1500
<b>B</b>	1190	872	1600
<b>C</b>	1810	872	1600

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You will quickly find an assemblies already assembled, certified and ready to use.

- [1] Protection made by fuse
- [2] RCD 0,5A
- [3] RCD 0,3A sel.
- [4] RCD 0,3A
- [5] RCD 1A sel.
- [6] RCD 0,5A sel.

- (▲) Differential switch for terminal block protection not in continuous service.
- (●) Maximum power with a 0.5-0.7 simultanety factor.
- SW. DISC.= Switch-disconnector.
- MCB = Miniature circuit breaker.

