

Electrical safety

APPLICATIONS



OIL & GAS

Oil and gas industry, offshore installations, shipbuilding, heavy industry

Welcome



to the world of electrical safety



OIL & GAS

Offshore installations, shipbuilding, heavy industry

Your major supplier for all your electrical safety equipment needs

CATU was created in 1919 and, since the beginning, it has dedicated its activity to the manufacture of material and equipment for electricity networks and installations.

Since 1936, CATU's activity has been concentrated on equipment for personal protection against electrical hazards and accordingly, has now more than 60 years experience in this field.

After the end of World War II, many French companies involved in Production, Transmission and Distribution of Electrical Energy were amalgamated into one National Company, called "Electricité de France" (EDF).

A short time later, a central department for Safety and Prevention of Accidents was created within EDF. Because of the experience that CATU already had in this field, a very close cooperation was forged between EDF and CATU which resulted in joint development and improvement of all the important Safety Material and Equipment now used in France. The international recognition gained by EDF in this field has contributed to giving CATU a foremost position at the World Wide level.

At the present time, CATU Safety Equipment, including all the range of short-circuiting and earthing systems, the DETEXTM voltage detectors and testers, the live working tools and the individual equipment for linesmen, is used by the Main Power Utilities, Electrical Contractors, OIL&GAS industry, Large Industries and Railways in about 100 countries spread over the 5 continents.

CATU's experience and level of investment and research is unmatched. As a member of the main national and international technical committees (such as UTE, CENELEC, IEC and ASTM), CATU is contributing to the development and application of the latest technologies. This quest for continuous improvement is now reinforced with the ISO 9001:2000 Quality Insurance Certification.

Our endeavours to be the Specialist in Electrical Safety Equipment are made with genuine dedication to all aspects of Safety Engineering Principles. Together with our network of distributors, we acknowledge our commitment and obligations to our customers.



IEC



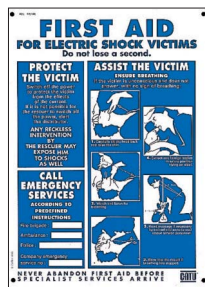
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Warning signs and delineators

Substation Warning signs

Aluminium warning signs treated against corrosion



Ref. **AM-20-GB**
(297 x 210 mm)



Ref. **AM-20-RM**
(350 x 500 mm)



Ref. **AP-510-BT-GB***
(297 x 210 mm) - *plastic



Ref. **AM-7002**
(300 x 200 mm)



Ref. **AM-215-RM**
(350 x 250 mm)



Ref. **AM-282/2-RM**
(200 x 60 mm)



Ref. **AM-61-GB**
(150 x 200 mm)



Ref. **AM-61-RM**
(150 x 200 mm)



Ref. **AM-49/1**
(100 mm side)



Ref. **AM-344-GB**
(100 mm side)



Ref. **AM-345-GB**
(100 mm side)

Specialized warning signs



Ref. **AM-42/2**
(200 mm side)



Ref. **AM-33/3**
(300 mm side)

Self adhesive warning signs

Self adhesive warning signs high quality, strong sticking



Ref. **AT-41/1**
(100 mm side)
Ref. **AT-41/05**
(50 mm side)
Ref. **AT-41/025**
(25 mm side)



Ref. **AT-49/1**
(100 mm side)
Ref. **AT-49/05**
(50 mm side)
Ref. **AT-49/025**
(25 mm side)



Ref. **AT-54/1**
(100 mm side)
Ref. **AT-54/05**
(50 mm side)



Ref. **AT-60/1**
(100 mm side)
Ref. **AT-60/05**
(50 mm side)



Ref. **AT-63/1**
(100 mm side)
Ref. **AT-63/05**
(50 mm side)



Ref. **AT-50/1**
(100 mm side)
Ref. **AT-50/05**
(50 mm side)
Ref. **AT-50/025**
(25 mm side)



Ref. **AT-51/1**
(100 mm side)
Ref. **AT-51/05**
(50 mm side)
Ref. **AT-51/025**
(25 mm side)



Ref. **AT-58/1**
(100 mm side)
Ref. **AT-58/05**
(50 mm side)



Ref. **AT-61/1**
(100 mm side)
Ref. **AT-61/05**
(50 mm side)



Ref. **AT-66/1**
(100 mm side)



Ref. **AT-52/1**
(100 mm side)
Ref. **AT-52/05**
(50 mm side)



Ref. **AT-53/1**
(100 mm side)
Ref. **AT-53/05**
(50 mm side)



Ref. **AT-59/1**
(100 mm side)
Ref. **AT-59/05**
(50 mm side)



Ref. **AT-62/1**
(100 mm side)
Ref. **AT-62/05**
(50 mm side)

Delineators



Ref. **AL-62-A**
(colored ribbon
20 m length)



Ref. **AL-63-A**
(colored ribbon
20 m length)

Warning earth flags



Ref. **AL-60**



Ref. **AL-58**





Safety padlocks, delineators and Protective equipment

Chain delineators



Ref. **AL-31/25**

25 m length

Ref. **AL-31/05**

5 m length



Ref. **AL-32/05**

5 m length

Safety boundary post



Ref. **AL-316**

0.9 m length



Ref. **AL-318**

0.9 m length

Safety locking badge

Ref. **AM-467-GB**

80 mm ø



Safety padlocks with warning signs



(*) add N° of key 111 or 222
Z : random N° of Key

Ref. **AL-230-(*)-EX**

Ring bow 50 mm length, ø 6 mm

Ref. **AL-230-S-(*)-EX**

Ring bow 70 mm length, ø 6 mm

Ref. **AL-230-Z-EX**

Ring bow 50 mm length, ø 6 mm

Ref. **AL-230-S-Z-EX**

Ring bow 70 mm length, ø 6 mm

Ref. **AL-240-(*)-EX**

Ring bow 50 mm length, ø 4 mm

Ref. **AL-240-S-(*)-EX**

Ring bow 70 mm length, ø 4 mm

Ref. **AL-240-Z-EX**

Ring bow 50 mm length, ø 4 mm

Ref. **AL-240-S-Z-EX**

Ring bow 70 mm length, ø 4 mm

Handle with 6 padlocks



Handle of moulded plastic for holding up to 6 padlocks.

Ref. **AL-236-111-EX**

with 6 ex **AL-230-111-EX**

Ref. **AL-236-S-111-EX**

with 6 ex **AL-230-S-111-EX**

Ref. **AL-236-222-EX**

with 6 ex **AL-230-111-EX**

Ref. **AL-236-S-111-EX**

with 6 ex **AL-230-S-222-EX**

Multiple locking apparatus



Ref. **AL-200**

Holds up to 4 padlocks



Ref. **AL-202**

Holds up to 4 padlocks



Handle for 10 and 30 padlocks

Ref. **AL-207/10**

for 10 padlocks

Ref. **AL-207/30**

for 30 padlocks



Face shield



Ref. **MO-186**

Polycarbonate face shield.
Head fit adjustment by milled wheel.
Protection against electric arcs of short circuits.

EN 166 / EN 170

Face shield



Ref. **MO-185-BL**

Panoramic face shield in non-scratch and anti-mist polycarbonate.
Chinstrap (with Velcro fastening) Head fit adjustment by milled wheel.

EN 166, EN 170, EN 50365, EN 397

Safety boots



Ref. **MV-131-(*)**

Exposure to oils, hydrocarbons.
Work involving oil.
Thick soles avoiding, risk of slips and strains.
Heavy duty, manufacturing, and construction.

EN 345

(*) Add sizes: 39-40-41-42-43-44-45-46-47.



Protective equipment

Insulating boots



Ref. **MV-135-(*)**

Made from elastomer canvas support, very flexible and resistant.
Anti-perforation stainless steel sole and shell.

EN 345

(*) Add sizes: 39-40/41-42-43-44-45-46/47-48-49/50.

Insulating rubber gloves



Insulating rubber gloves conform to international **IEC-60903 standard**.

To satisfy the requirements of this standard, they are subjected to dielectrical, mechanical resistance and ageing tests.

The acceptance levels for mechanical tests are stricter.

(*) References to be completed by size A, B, C, D.

(**) References to be completed by size C, D.

Correspondence with standard sizes:

A = 8, B = 9, C = 10, D = 11

Ref.	Class	Voltage (V)	Thickness	Weight (g)
CG-02-(*)(1)	00	500 V	0.9 mm	220
CG-05-(*)(1)	00	500 V	0.5 mm	150
CG-10-(*)(1)	0	1000 V	1.0 mm	220
CG-15-(**)	1	7500 V	1.5 mm	270
CG-20-(**)	2	17000 V	2.3 mm	450
CG-30-(**)	3	26500 V	2.9 mm	560
CG-40-(**)	4	36000 V	3.6 mm	800

(1) cotton tised inner layer

Insulating Mat



The matting is manufactured of elastomer compounds with slip-resistant surface.
High quality dielectrical rubber.

Conform to international **IEC-61111 standard**.

Ref.	Tension (kV)	Thickness	Dimensions (m)
MP-42/11	≤ 26.5	3 mm	1 x 1
MP-42/16	≤ 26.5	3 mm	0,6 x 1
MP-42/66	≤ 26.5	3 mm	0,6 x 0,6
MP-60/03-10	≤ 26.5	3 mm	0,6 x 10
MP-100/03-5	≤ 26.5	3 mm	1 x 5
MP-100/05-5	≤ 36	5 mm	1 x 5

Working on pole kit



Ref. **KIT-HAUT-02-(*)(1)**

EN-358 EN-361 (Harness only)

Composition :

- 1 harness **MO-563-(*)(1)** size S, M or XL
- 1 double tether rope with energy absorber (Length: 1,20 m)
- 1 tether rope with tension device
- 1 constraint tie
- 1 anti-fall grip with 15 m of rope
- 1 snap hook
- 1 carrying bag

For full working on pole range information please contact us or consult our general catalogue on our website: www.catuelec.com.



Bags for insulating mats



Ref. **MP-01**
For **MP-42/16** and **MP-42/66**
length: 0.7 m

Ref. **MP-02**
For **MP-42/11**
length: 1.1 m

Insulating stepladders



A complete range with top quality features:

Insulation between two steps: 30 000 V

Lateral risers in polyester/fiberglass

Aluminium alloy rungs with anti-slip coating.

EN 131

Ref.	Nbr.steps	Reach height
MP-700-4	3	0.68 m
MP-700-1	4	0.91 m
MP-700-2	5	1.14 m
MP-700-3	6	1.37 m

Climbers



Ref. **MO-23**

Climbers for H profile metallic poles.

For other models: please consult us





Arc flash personal electrical safety protection

Arc flash jacket kit (11cal/cm²)

Ref. **KIT-ARC-10-J**(*)

Composition of the kit:

- 1 Face shield with chin cup 10 cal/cm², absorbs > 99.9 % of harmful UV radiation, tested to **ASTM F2178** specifications.
- 1 ABS helmet electrically insulated **EN397, EN 50365, ANSI Z89.1**, 20k V.
- 1 safety glasses **EN 166/EN 170**.
- 1 arc flash protective hood (10 cal/cm²), only with coverall.
- 1 arc flash protective jacket 11 cal/cm² **ASTM F1506** and **NFPA 70E Standards**.
- 1 carrying bag for face shield and helmet.
- 1 all kit carrying bag.

(*) References to be completed by size M, L or XL.
Other sizes on request.



Arc flash protective coverall kit (11cal/cm²)

Ref. **KIT-ARC-10-C**(*)

Composition of the kit:

- 1 Face shield with chin cup 10 cal/cm², absorbs > 99.9 % of harmful UV radiation, tested to **ASTM F2178** specifications.
- 1 ABS helmet electrically insulated **EN397, EN 50365, ANSI Z89.1**, 20 kV.
- 1 safety glasses **EN 166/EN 170**.
- 1 arc flash protective hood (10 cal/cm²), only with coverall.
- 1 protective coverall 11 cal/cm² **ASTM F1506** and **NFPA 70E Standards**.
- 1 carrying bag for face shield and helmet.
- 1 all kit carrying bag.

(*) References to be completed by size M, L or XL.
Other sizes on request.



Arc flash face shield kit (10cal/cm²)

Ref. **KIT-ARC-01**

Composition of the kit:

- **M-881956**: 1 Face shield with chin cup 10 cal/cm², absorbs > 99.9% of harmful UV radiation, 70% light transmission, tested to **ASTM F2178** specifications.
- **MO-182/1-B**: 1 ABS helmet electrically insulated **EN397, EN 50365, ANSI Z89.1**, 20 kV.
- **M-87384**: 1 carrying bag for face shield and helmet.



Additional equipment non included in kits:



Ref. **CG-11**(*)
Latex insulating gloves to provide heat protection from an electric arc.



Ref. **CG-65-CAL**
Arc Flash gloves, protects the hands against the heat of an electric arc.

Overgloves
Ref. **CG-98**(*)



Ref. **CG-80-H**
Undergloves.



Ref. **CG-10**(*)
Latex insulating gloves.



Ref. **CG-36/2**
Bag for insulating gloves.

(*) References to be completed by size A, B, C, D.
Correspondence with standard sizes: A = 8, B = 9, C = 10, D = 11

Arc flash protective hood kit (40 to 100 cal/cm²)

Reference	Capacity cal/cm ²	Weight	Color
KIT-ARC-25-B (*)	25 cal/cm ²	6 000	KAKI
KIT-ARC-40-B (*)	40 cal/cm ²	6 900	GREY
KIT-ARC-55-B (*)	55 cal/cm ²	8 000	GREY
KIT-ARC-65-B (*)	65 cal/cm ²	8 000	CAMEL
KIT-ARC-100-B (*)	100 cal/cm ²	8 000	CAMEL

Composition of the kit:

- 1 arc flash protective hood with an integrated face shield (25, 40, 55, 65 or 100 cal/cm²), **ASTM F2178** and **NFPA 70E Standards**.
- 1 ABS helmet electrically insulated **EN397, EN 50365, ANSI Z89.1** - 20 kV.
- 1 arc flash protective bib overall (25, 40, 55, 65 or 100 cal/cm²), **ASTM F1506** and **NFPA 70E Standards**.
- 1 arc flash protective coat (25, 40, 55, 65 or 100 cal/cm²), **ASTM F1506** and **NFPA 70E Standards**.
- 1 safety glasses **EN 166/EN 170**.
- 1 carrying bag for face shield and helmet.
- 1 all kit carrying bag.



(*) References to be completed by size M, L or XL.
Other sizes on request.



KIT-ARC-25-B(*)



KIT-ARC-40/55-B(*)



KIT-ARC-65/100-B(*)



In many countries regulations have been established to protect workers from electrical shock and flash hazards in specific areas within which arc flash protection is required.

Oil & gas applications, shipbuilding, heavy industry





Live saving kits and Safety lamps

Wall mounted saving kit



Ref. **CZ-54-R**
24 kV

with instructions in english

Ref. **CZ-55-R**
36 kV

with instructions in english

Ref. **CZ-54-MR**
24 kV

with instructions in english/arabic

Ref. **CZ-55-MR**
36 kV

with instructions in english/arabic

In case of an electrical accident, quick response is essential: seconds gained or lost can decide the life or death of a victim. Our life saving equipment is designed to make all necessary materials immediately available to rescue personnel.

Composition of the kit:

- 1 moulded plastic support with translucent high resistance plastic door
- 1 rescue telescopic stick
- 1 voltage detector with flexible antenna contact (with autotest)
- 1 cable cutter with insulated handles. Forged steel blades - maximum opening: 30 mm
- 1 insulating platform 24 or 36 kV high voltage
- 1 insulating gloves
- 1 insulating boots
- 1 safety instructions on the plastic door
- 1 talcum powder can.



Compact carrying saving kit

This compact kit is designed especially to be carried in a vehicle for safety electrical intervention (up to 24 kV).

Made in two part (of moulded material: PEHD), the case is also on its red part, an insulating platform.

Composition of the kit:

- 1 insulating platform 24 or 36 kV
- 1 telescopic insulating stick
- 1 voltage detector with autotest
- 1 rescue hook
- 1 insulated cable cutter
- 1 pair of insulating gloves
- 1 pair of insulating boots
- 1 talcum powder can
- 1 safety instructions and safety first aid posters
- 1 adhesive tape (black and yellow).

Ref. **CZ-53-R**
24 kV

with instructions in english

Ref. **CZ-53-R/2**
36 kV

with instructions in english

Ref. **CZ-53-MR**
24 kV

with instructions in english/arabic

Ref. **CZ-53-MR/2**
36 kV

with instructions in english/arabic



Intrinsically safe torch light



Ref. **MS-129**

Mini-pocket yellow torch, Zone 0. For maintenance and control operations.

II 1 G Ex ia IIC T4.

Ga Ex ia D 20.

IP 65.

Maxi temperature 90°C.

4 hours autonomy.

Batteries: 2 x 1.5 V (AAA - LR03) - included.



Ref. **MS-130**

Yellow torch, Zone 0 with polycarbonate body.

II 1 G Ga Ex ia IIC T4

II 1 D Da Ex ia D 20.

IP 66.

Maxi temperature 83°C.

7.25 hours autonomy.

Batteries: 4 x 1.5 V (AA - LR06) - not included.



Intrinsically safety LED's headlamp



Ref. **MS-126**

Agreement ATEX.

European certificate category 2, Zone 1.

N° ITS09ATEX26185X

II 2 G Ex ia IIB T4.

Can be carried either on the head on any kind of helmet.

Autonomy: 150 hours.

Very light, ABS body.

Range: 10 to 15 meters

Batteries: 3 x 1.5 V (AAA - LR03) - included.

Delivered with 2 straps.





Electrical maintenance equipment

Low voltage complete set

Composition of the kit:

> Personal equipment

MO-186	1 face shield
CG-98-C	1 working gloves size C
CG-05-B	1 rubber gloves size B
CG-36	1 carrying bag for rubber gloves
MP-42/16	1 insulating mat 3 mm

> Voltage detector

MS-917 EX	1 voltage detector
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> Insulating equipment

MP-26-A	10 insulating caps
MP-35/12	1 insulating blanket
MP-39	10 wood clamps for insulating blanket
MP-32/15	6 line protectors 1.50 m
MP-19	5 insulating adhesive tapes

> Insulating tools

MO-61001	1 stripping knife
MO-67502	1 cable cutter 230 mm
MO-68008/19	1 open end spanners set
MO-69903	1 right angle hexagonal key wrench 3 mm
MO-69904	1 right angle hexagonal key wrench 4 mm
MO-69906	1 right angle hexagonal key wrench 6 mm
MO-751	1 insulating folding rule

Ref. **MO-510-03-EX**
Tool bag not included



MO-69003	1 adjustable spanner 250 mm
MO-66002	1 universal pliers 180 mm
MO-66202	1 round nose pliers 160 mm
MO-66502	1 water pump pliers 250 mm
MO-67102	1 side cutter 160 mm
MO-69308/23	1 sockets 3/8" wrench set with 10 sockets

MO-65205	1 flat blade screwdriver 4 x 100
MO-65207	1 flat blade screwdriver 6.5 x 150
MO-65209	1 flat blade screwdriver 8 x 175
MO-65232	1 Phillips screwdriver n° 1
MO-65234	1 Phillips screwdriver n° 2
MO-65236	1 Phillips screwdriver n° 3

Intervention kit L.V. for electricians

Composition of the kit:

MO-87370	1 tool bag
CG-05-C	1 pair of insulating gloves size C
MO-11001	1 safety glasses
AL-230-111	1 safety padlock
MO-65204	Flat blade screwdriver - 3.5 x 100 mm
MO-65206	Flat blade screwdriver - 5.5 x 125 mm

MO-65209	Flat blade screwdriver - 8 x 175 mm
MO-65242	Pozidriv screwdriver - N°1 4.5 x 80 mm
MO-65244	Pozidriv screwdriver - N°2 6 x 100 mm
MO-66002	Universal plier - length 180 mm
MO-66402	Bent snipe nose plier - length 160 mm
MO-67302	End stripping plier - length 160 mm
MO-67500	Cable cutter - length 170 mm
MO-66502	Water pump plier - length 250 mm

Ref. **MO-38510**



Safety shunt

Ref. **MC-132/07**
With 0.7 m of cable

Ref. **MC-132/20**
With 2 m of cable

Safety shunt with two insulated clamps in anti-spark alloy and copper cable 35 mm² under transparent flexible sheath.

Delivered in plastic case.



Earthing systems for vehicles



Ref. **TR-18**

Fitted boundary earthing plug for vehicle earthing cable.

Ref. **MC-130**

Earthing clamp, capacity: ø 18 to 38 mm.



Earthing clip



Ref. **COL- 8/32**
capacity: ø 8 to 32 mm
from 2.5 to 6 mm²

Ref. **COL- 32/100**
capacity: ø 32 to 100 mm
from 2.5 to 16 mm²

Interconnect to earth every metallic parts of installations.



Electrical maintenance equipment

Earthing coil

Ref. **ENR-15-ATEX**

Earthing coil for explosive atmospheres Zones 0, 1, 2.
With 15 m cable and earthing box with warning light.
Guarantees bonding loads.



Voltage detector

Ref. **CL-2-5/36-2** (5 to 36 kV)
Ref. **CL-2-10/30-2** (10 to 30 kV)

For indoor use without batteries.
This compact serie voltage detector is designed to be carried easily by operators.
Voltage presence is indicated by a high-brightness LED's indicator. Built-in device for checking of the LED's indicator by a piezotest generator.
Folded up: 33 cm
Total length: 90 cm

Delivered in holster.
Other models fixed or telescopic, please contact us.



Substation equipment (medium voltage)

Short circuiting and earthing systems

Installation on permanent fixed points **IEC-61230/EN-61230**



Ref.	Icc (kA/1s)	Installation on fixed points	Composition set	Connection set
MT-1910	20	Ø 20 mm MT-2951 range	3 clamps MT-1911-E 1 MT-1911	3 cables 95 mm ² 1 earth cable 35 mm ²
MT-1920	30	Ø 25 mm MT-3951 range	3 clamps MT-1921-E 1 MT-1921	3 cables 150 mm ² 1 earth cable 50 mm ²

Recommended stick to be ordered separately: **CF-5-40-E**

Installation on bare conductors **IEC-61230/EN-61230**



Ref.	Icc (kA/1s)	Conductor (mm)	Composition set	Connection set
MT-5805	20	● Ø 5-35 — 16-40 — 5-40	3 clamps MT-815-C 1 MT-840/1	3 cables 95 mm ² 1 earth cable 35 mm ²
MT-8408	14,5	● Ø 18-33 — 1 MT-1921	3 clamps MT-815-C 1 MT-840/1	3 cables 70 mm ² 1 earth cable 35 mm ²
MT-9801	10	● Ø 5-16 — 0-16 ● Ø 5-28	3 clamps MT-817-C 3 clamps MT-814/2-C 1 MT-840/1	3 cables 50 mm ² 1 earth cable 25 mm ²

Recommended stick to be ordered separately : **CE-4-21-C**
For other configurations please consult us.





Electrical maintenance equipment

Fixed points for flat conductors on MV substation

Ref. **MT-2951/1**



Ref. **MT-3951**



Ref. **MT-2951/35**



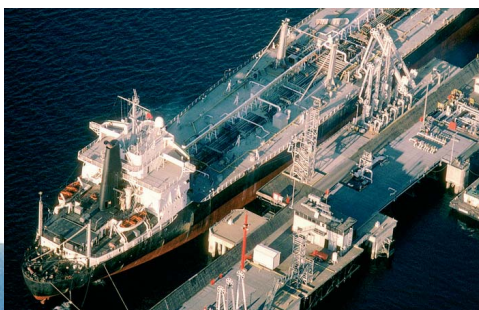
Ref.	Sphere dimension	Weight (g)	Fixing
MT-2951	Ø 20 mm	130	Thread: M 12
MT-2951/1	Ø 20 mm	180	Bolt: M 12 - L = 35 mm
MT-2951/2	Ø 20 mm	200	Bolt: M 12 - L = 45 mm
MT-2950/35	Ø 20 mm	247	Bolt: M 12 - L = 35 mm
MT-3951	Ø 25 mm	240	Thread: M 12
MT-3952	Ø 25 mm	240	Thread: M 16
MT-3951/1	Ø 25 mm	300	Bolt: M 12 - L = 45 mm
MT-3952/1	Ø 25 mm	350	Bolt: M 16 - L = 45 mm
MT-3950/35	Ø 25 mm	300	Bolt: M 16 - L = 35 mm

Two pole phase comparator

Ref. **CL-8-36**

Detect differences in voltage between any two points of an installation indicated by LED's. It also enables assessment of the order of magnitude of the residual voltage induced by nearby live lines or circuits, and thus differentiates it from the one provided directly from a high voltage source.

Range of voltage: **2/36 kV**



Overhead line equipment (medium voltage)

IEC electronic voltage detector

IEC 61243-1



Ref. **CC-875-10/36-(*)**
range: 10 - **36 kV**

Ref. **CC-875-11/33-(*)**
range: 11 - **33 kV**

Compact and light it offers:

- a wide band: 10/36 kV.
- a universal application (50/60 Hz).

Characteristics:

- Detectors have unitary adjustment and are checked by routine test.
- Dielectrically tested on substation bars (bridging test).
- Precise and stable operating threshold.
- Reduced sensitivity to induced voltages.
- Reduced sensitivity to interference field.
- High environmental resistance (impacts, vibrations, moisture).

Temperature conditions: class N (IEC-61243-1 standard).

Storage and operation: -25/+55 °C

Robust housing.

Power supply: 1 x 9 V alkaline battery type 6LR61.

Weight: 1.1 kg size: 340 x 275 x 83 mm

Recommended stick: CE-4-21-(*).

(*) specify type of mounting when ordering

Single pole phase comparators



IEC 61481



Ref. **CL-7-10/36**
range: 12 - **36 kV**

Range of voltage (kV): 12-36

Length of antenna (m): 1.20

Frequency and voltage phase memory.

Integrated TEST push-button.

Powered by a LF 22 9 V battery.

Delivered in carrying case.



Overhead line short circuiting and earthing system



IEC 61230



MT-613 clamps are automatic contact clamps. They are put into position from above the conductor, using the clamp dispenser head.

Reference	Rating	Equipment composition
MT-6613	8 kA/1s	<ul style="list-style-type: none"> - 3 automatic contact clamps MT-613 - Connection cables 35 mm², max. gap between clamps: 2.75 m - 1 clamp dispenser head MT-635/1-C - 1 spool with earthing cable connection MT-640-S
MT-6613/1	25 kA/0.5s	<ul style="list-style-type: none"> - 1 carrying bag M-87295 - 3 automatic contact clamps MT-613 - Connection cables 95 mm², max. gap between clamps: 2.75 m - 1 clamp dispenser head MT-635/1-C - 1 earthing cable connection 15 x 35 mm² - 1 earthing clamp MT-840/1 - 1 carrying bag M-87295



After sale service



Repairs under guarantee

Guaranteed repairs, parts and labour, within the limit of the CATU guarantee terms and conditions specified for the products.

Audit of your inventory

- General recommendations
- Preventive reminders
- Repairs on quotations

Routine Maintenance, Calibration, Retrofit

Operations made in accordance with a quotation after examination of the equipment.

Logistics in association with our appointed distributor in your country

- Collection and delivery of your equipment
- Rental of equipment

Training & technical assistance



Training

Training modules on site or at our premises is provided on the following program:

- the electrical risk
- IEC and the "golden rules"
- Voltage detection
- LV, MV and HV earthing and short-circuiting
- Safety equipment for transformers and substations

Technical assistance

- Recommendation on the use of our products
- Assistance with specification and choice of products according to the application need
- Help with preparation of the technical specifications

Flexible workshop



Specially manufactured items

Quotations in accordance with feasibility.

Rush delivery

- According to the specificity of the product and on estimate
- With a guarantee of rapidity

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