

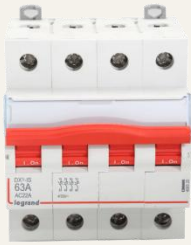
DX³



THE NEXT STEP



DX³ offer



MCB

AC
DC
RDSO

Isolators

RCCB

AC
A
HPI

RCBO

AC
HPI

Accessories

Measure

Power
Multi power

Time-Switch

Digital
Astro

Contactor

DX³ – a global offer

- Global range
- R&D in France, Italy & India
- Launched in France, Spain, Portugal, Italy, Chili, central America, Russia and CEI countries, whole Africa, Arabic countries
- Next launch in China, Brazil, Peru, Northern and Eastern Europe and the remaining Asian countries
- India 13th country to launch DX³

- MCB
 - 0.5 to 125 A
 - C & D Curve
 - 10,16, 25,36 & 50 KA breaking capacity
 - SP, SPN, DP, TP, TPN & FP versions

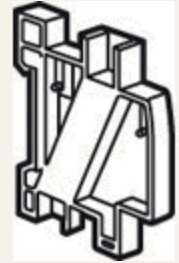
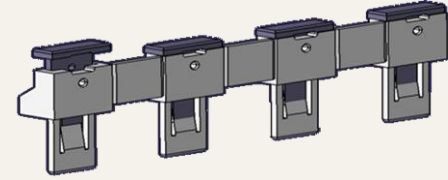
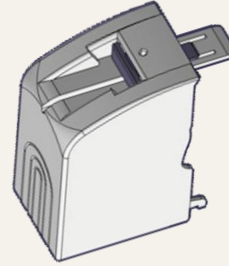


- Auxiliaries
 - Auxiliary contact
 - Fault signaling contact
 - Undervoltage
 - Shunt trip
 - Power over voltage
 - Motor operator










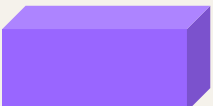

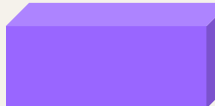







■ Accessories

- Insulating shield
- Terminal cover
- Screw cover
- Support for padlock
- Spacing element



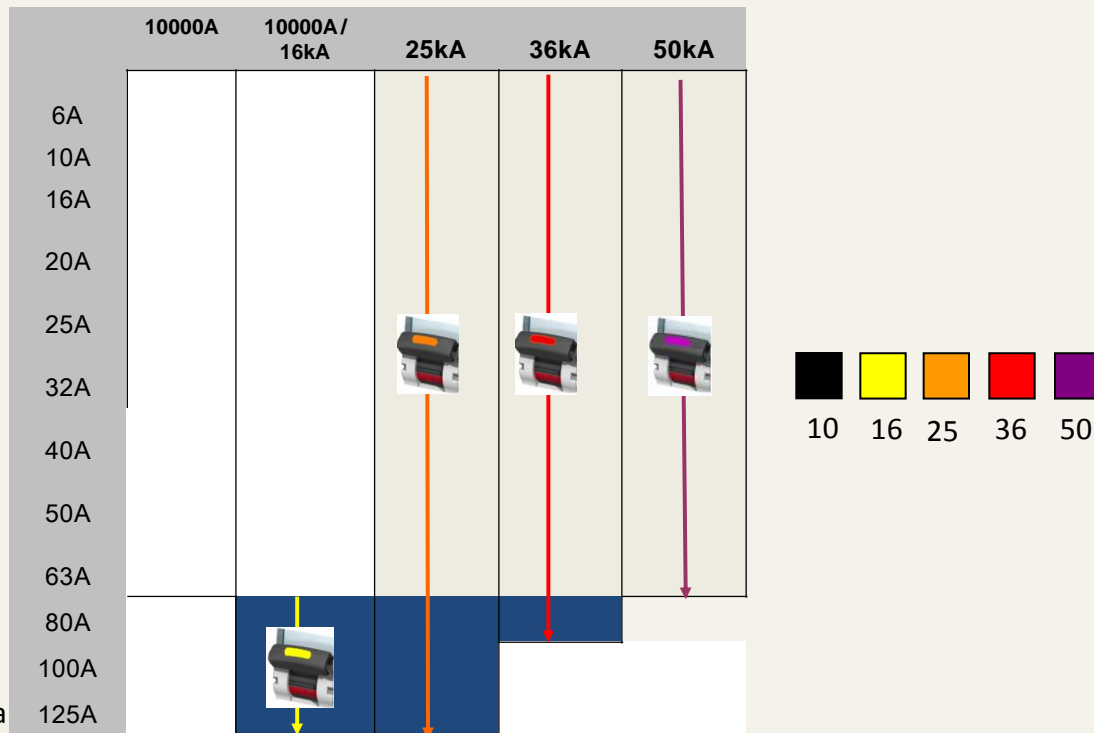
Complete Range

- DX³ comes with complete range of devices in modular size

	0.5 to 4 A	6 to 32 A	40 to 63 A	80 to 125 A
MCB				
Isolator				
RCCB				
RCBO				
Auxi				

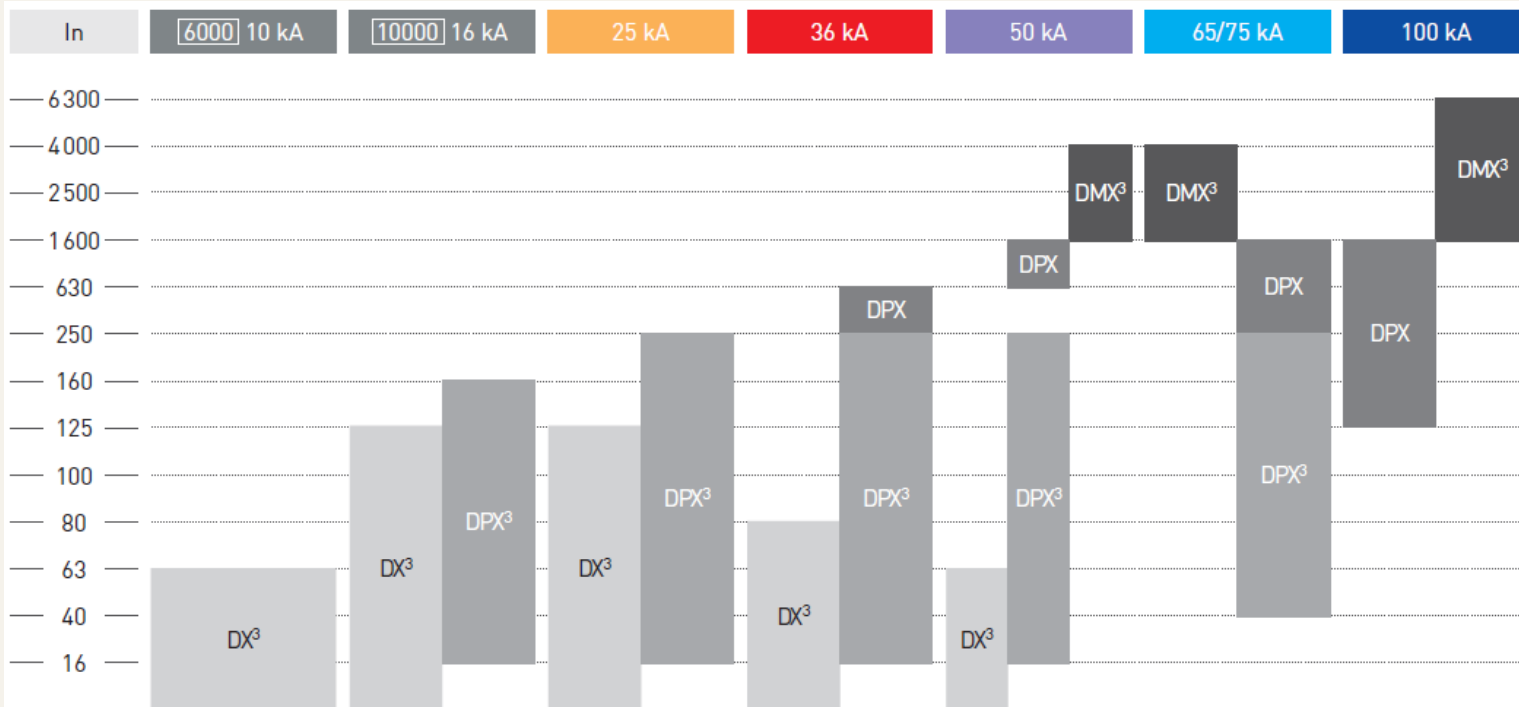
Complete range

- DX³ is a complete range of MCBs from 10 KA to 50 KA
- Fulfills demand of all kind applications
- Homogeneity with Power range



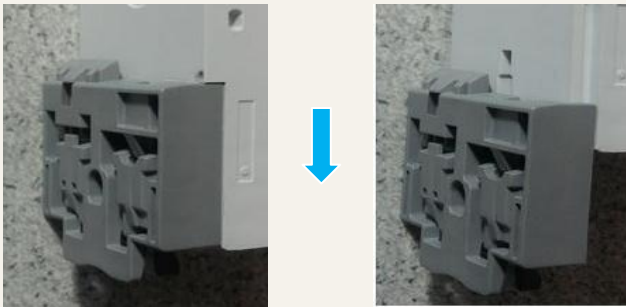
Complete system approach

- Most comprehensive range for energy distribution
- DMX³, DPX³, DPX & DX³ makes a perfect system



- Specific clamp at bottom side
- Easy fixation and removal
- Easy removal from the bank with fork busbar connection

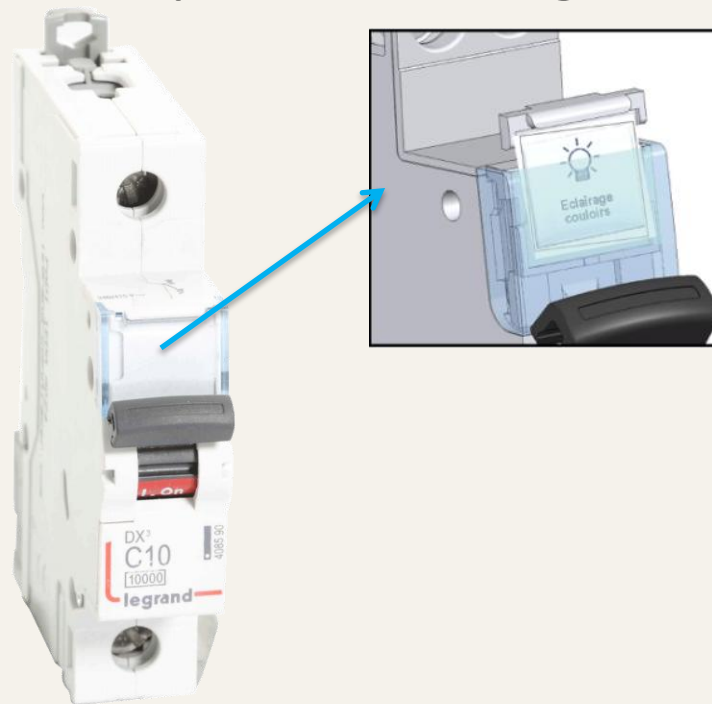
**Bottom clamp:
Easy removal from the DIN rail**



No need to unscrew the entire row

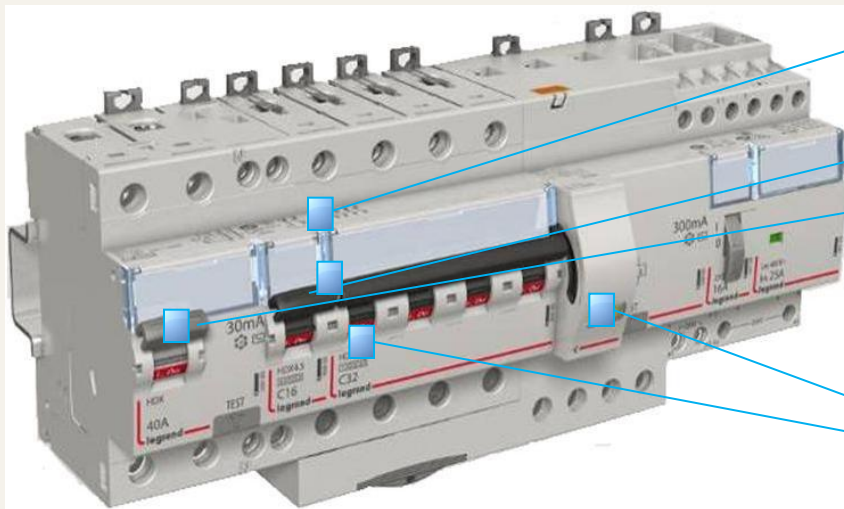


- Improved opening & closing system
- Enhanced dust protection
- Label remains in place for longer time



Easy diagnostic

- Easy identification of status of the product
- Easy identification of the faulty circuit
- Easy understanding of the standards



Technical information
Indication of functions

■ MCBs

■ Switches

Indication of status

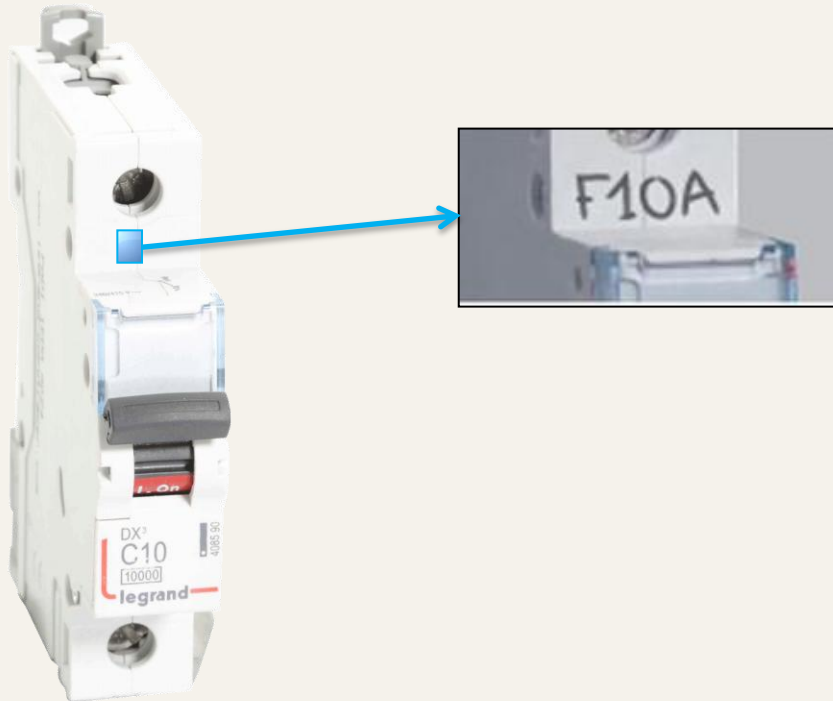
■ Contact closed

■ Contact opened

■ Earth leakage fault

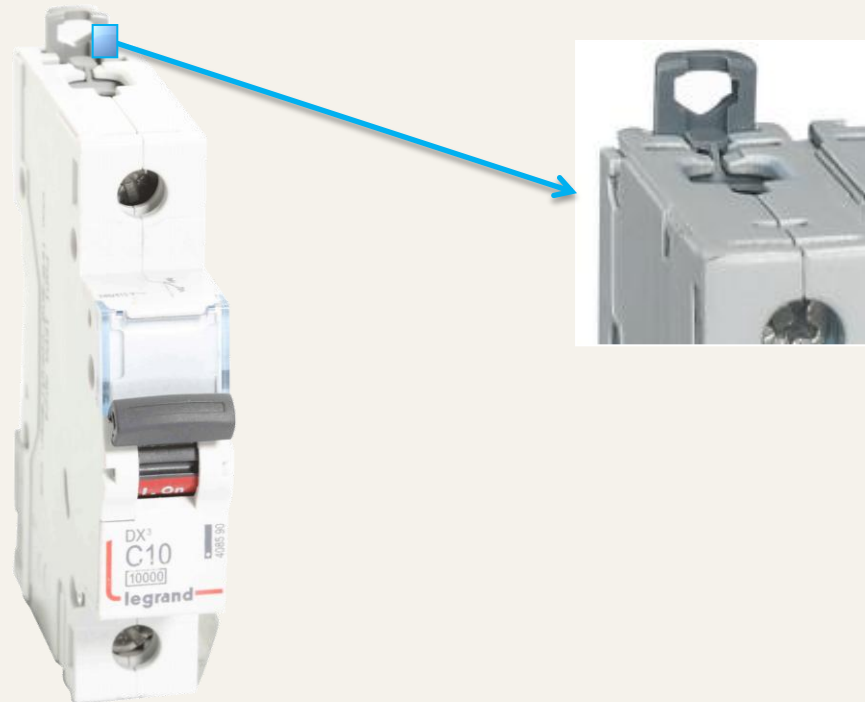
■ Command activated

- Area defined for the markings
- Additional area than label holder



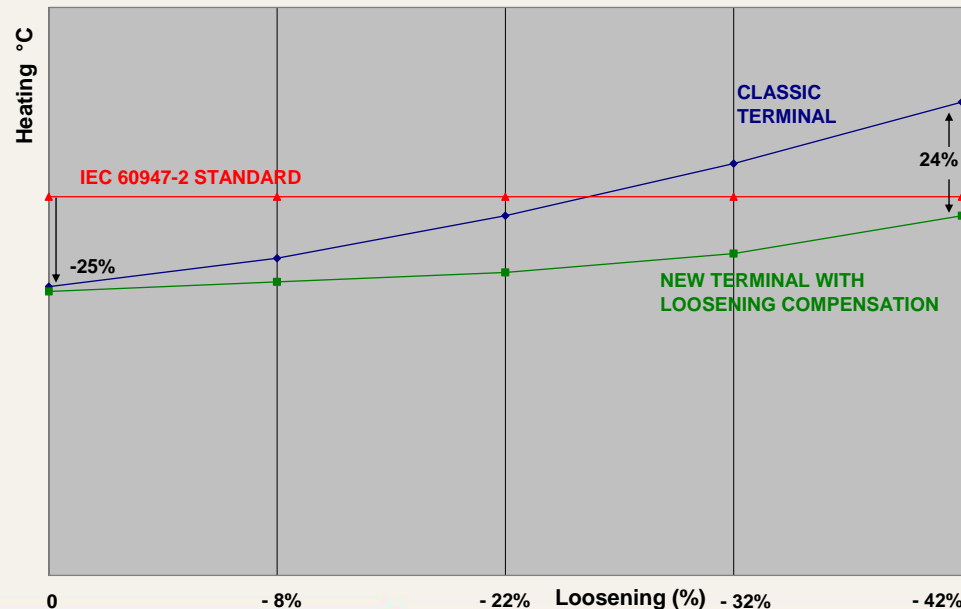
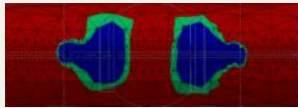
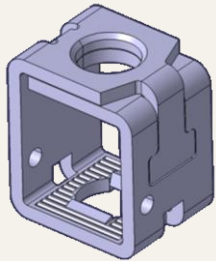
Better top clamp

- Improved top clamp
- Easy accessibility with screw driver
- Longer life



Improved terminal design

- Maintains high contact pressure
- Less heating at terminals
- Increased contact pressure on cable
- Heating values well below the standard

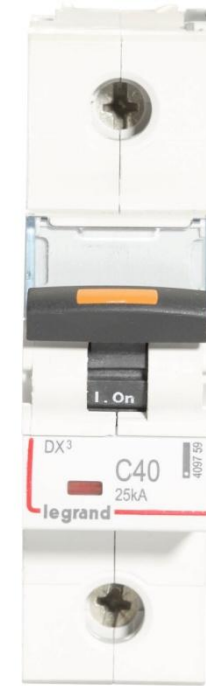


Cable termination

- $I_n \leq 63$ A – 35 sqmm
- $I_n \geq 80$ A – 50 sq mm
- In 1.5 module products
- $I_n \leq 63$ A – 50 sqmm
- $I_n \geq 80$ A – 70 sq mm
- Better connections
- Less terminal problems



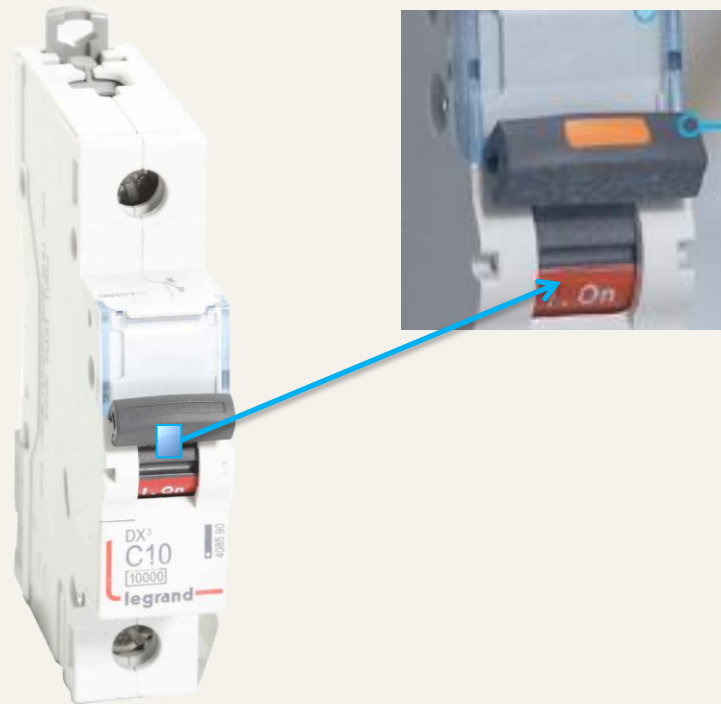
1 MODULE/POLE
Terminal capacity:
 $I_n \leq 63$ A \rightarrow 35 mm²



1,5 MODULES/POLE
Terminal capacity:
 $I_n \leq 63$ A \rightarrow 50 mm²
 $I_n \geq 80$ A \rightarrow 70 mm²

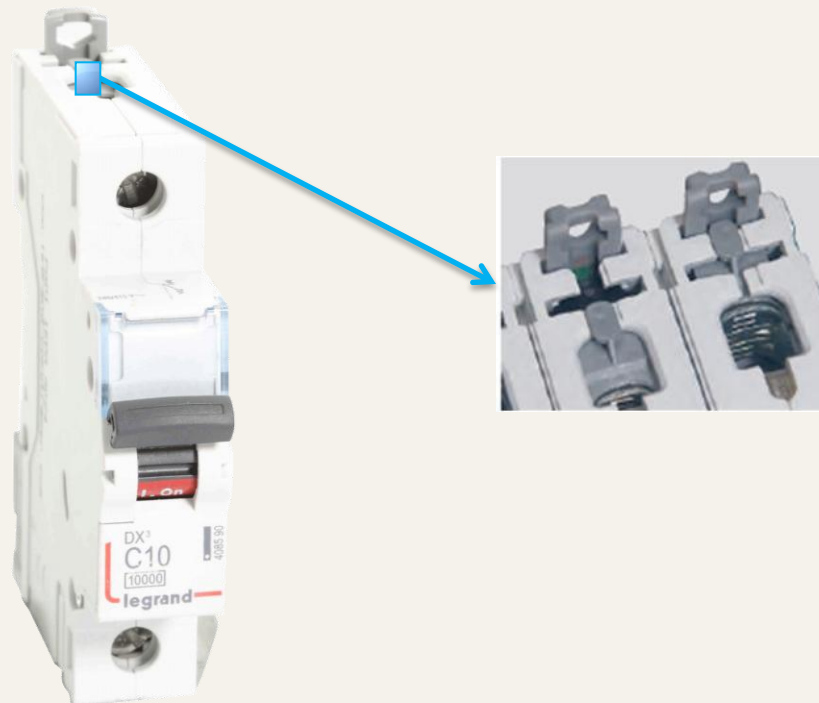
Contact Indication

- Contact indication status with Green & Red color
- Green – OFF
- Red – ON



Terminal shutter

- Terminal shutters for additional safety
- Ensures wire in right position



Improved air channels

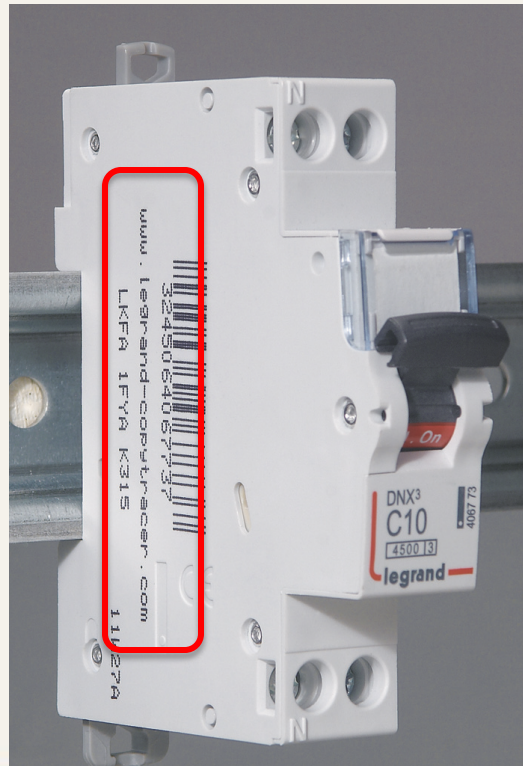
- Improved air-flow pattern
- Less internal heating
- Less temperature derating



Unique copytracer number

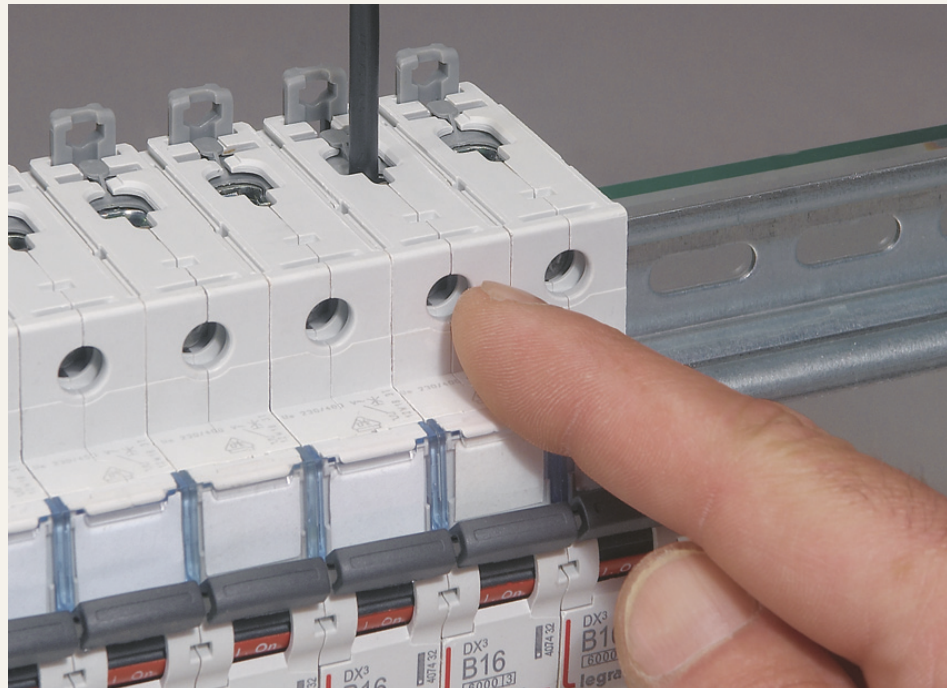
- Unique number on each product
- The number can be checked on the website:

www.legrand-copytracer.com



IP20 terminals

- Finger proof terminals
- No contact with live parts
- Completely safe to operate



Environment friendly

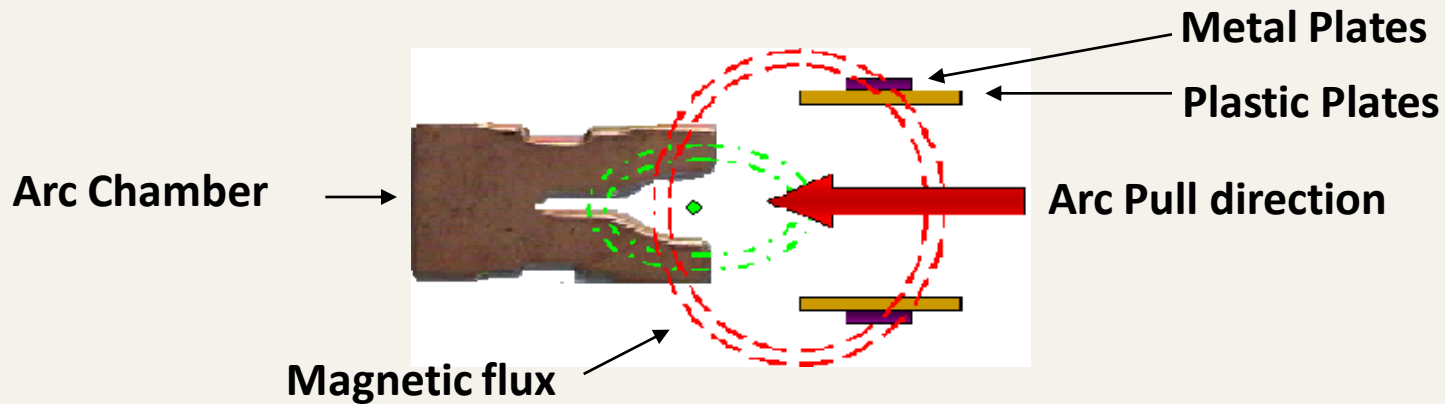
- High percentage of recyclable and recoverable components
- Decrease in packaging weight
- RoHS compliant
- EcoDesign
- PEP datasheet available for all product families



Arc chamber

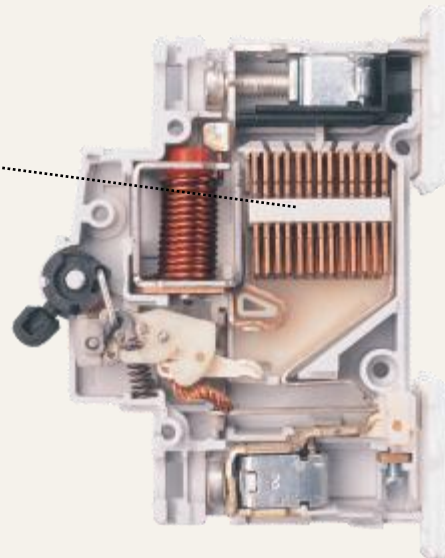
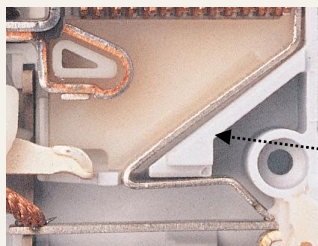
Unique

- Quick & Efficient Arc Quenching
- Very low let through energy
- Increases life of Installation



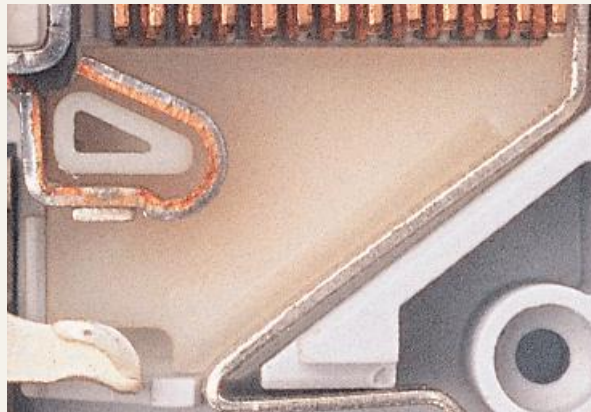
Arc Blower (Arc diverter)

- After contact separates, arc shifts from moving contact to arc runner
- Thus the bimetal and the moving contact are bypassed & protected
- Thus uniform thermal characteristics during entire life of product



Gas Chamber

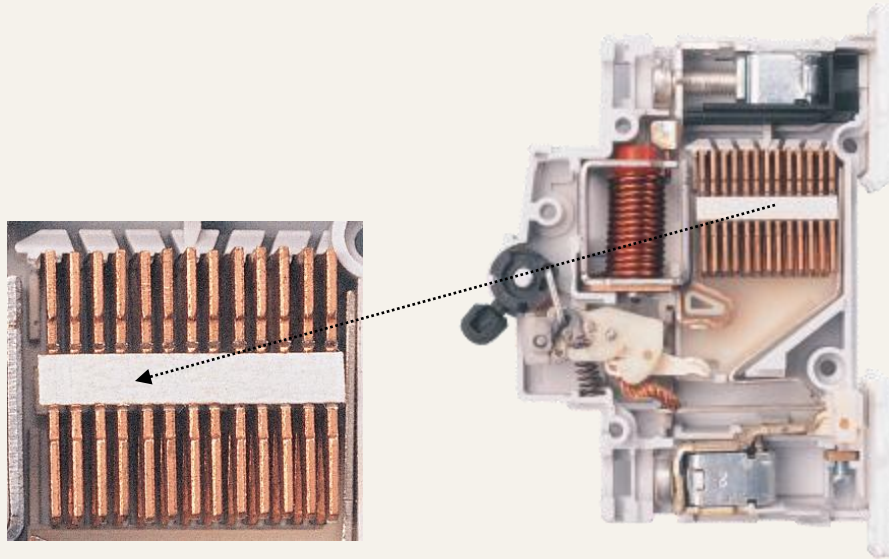
- Gas chamber offers high dielectric resistance to arc & forcibly carries arc to arc chamber
- Fast breaking of the fault current and hence reduces the breaking time



Arc chamber

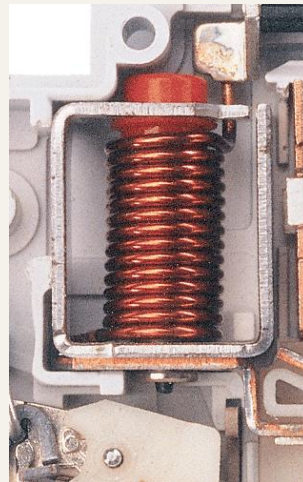
13 Plates Arc Chamber

- Arc chute helps extinguishing the arc in minimum time
- Thus achieve low let through energy



Hammer Trip

- Moving contact is forcibly separated from the fixed contact by a hammer
- Contact separation is by push action. Push action is more speedy & forceful
- The effectiveness of this hammer trip remains same up to the last shot of short circuit sequence
- Less tripping time so minimum let through energy



Contact separation

Unique

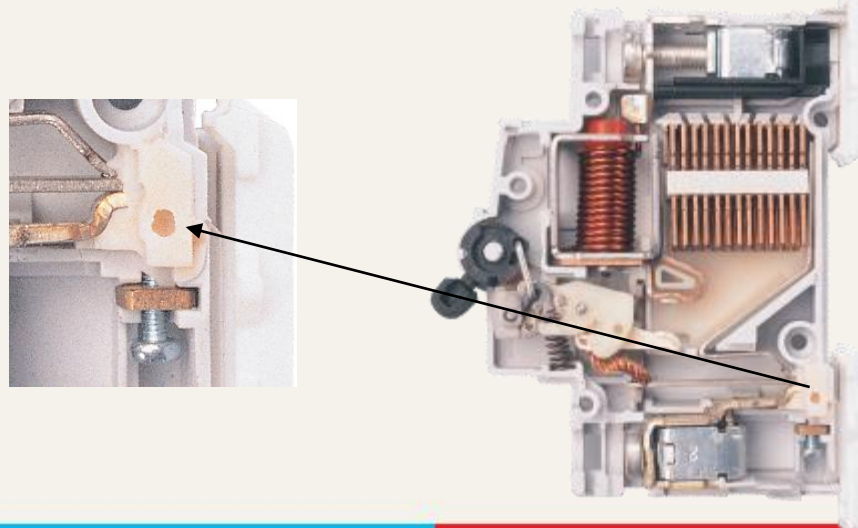
50 % increase in contact separation

- In normal ON/OFF operation current separation is 6 mm
- In case of thermal & magnetic tripping the contacts get separated by 9 mm
- Thus preventing the arc to restrike & also ensures effective arc quenching
- No chance of Arc restriking



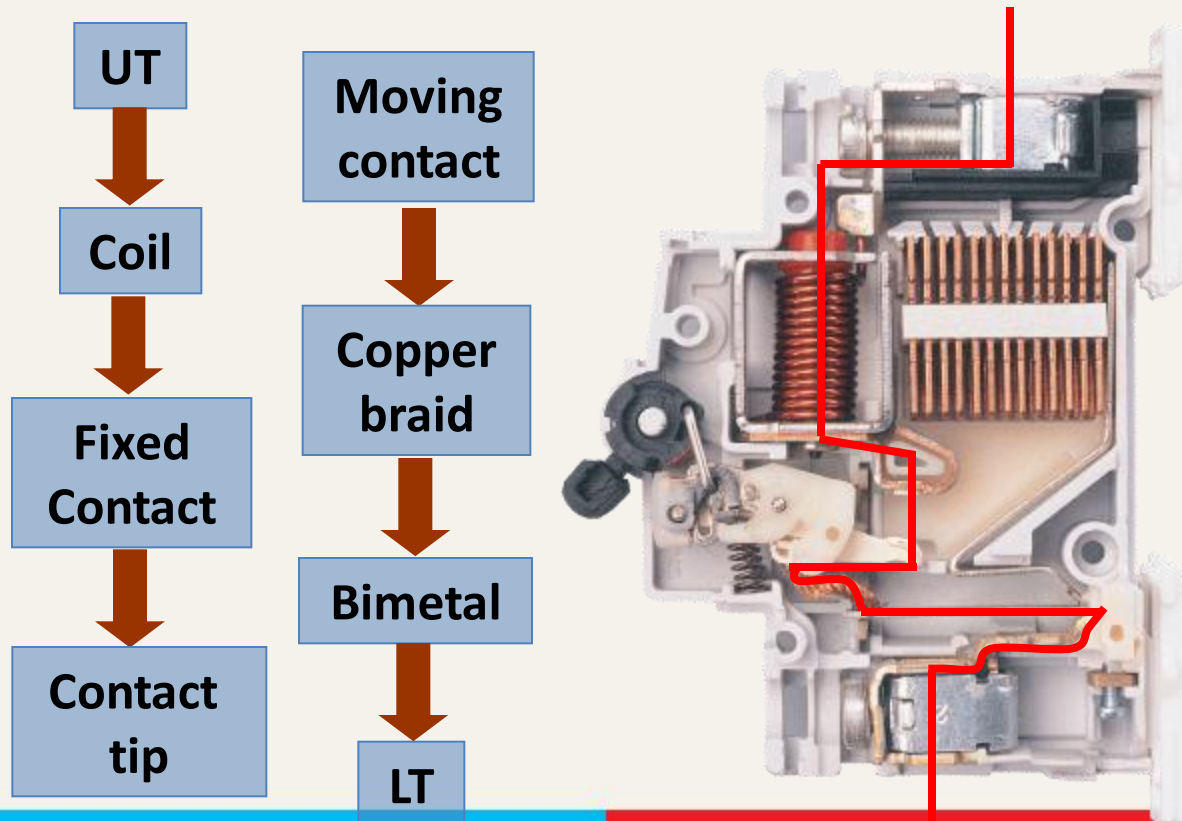
Sealing of calibration screw

- After calibration the cavity inside is filled with special moulding compound
- It acts as sealant to calibration nut and also forms the solid support to the bimetal
- Ensures bimetal to have very rigid & firm position through out its life resulting in to consistent thermal behavior of MCB



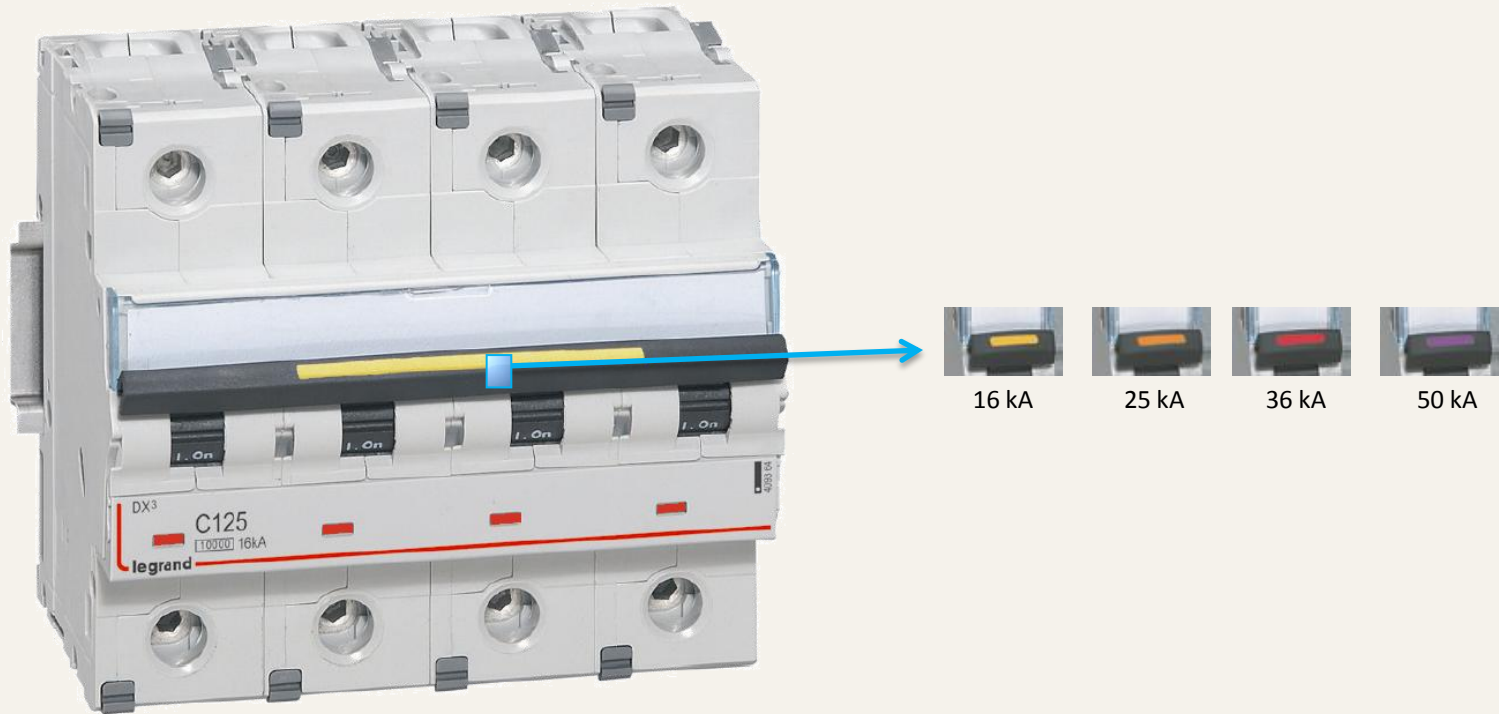
Current path

- In the entire range of MCB, the current path is always in series
- Higher consistency in thermal characteristic
- Less let through energy during short circuit

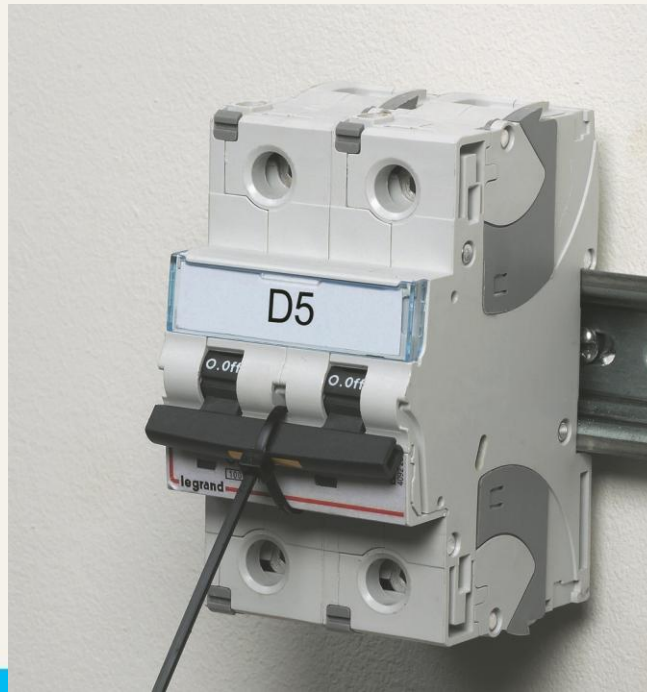


Breaking capacity indicator

- Breaking capacity flag on dolly



- Simple padlocking concept on site with help of cable ties
- No need to buy special accessory
- Easy and safe maintenance



Contact indication

- Front face indication on high rated products
- Easy understanding of the status of the product



Insulated shields

Unique

- Integrated insulation shields for better safety
- No additional accessories required
- Complete isolation of phases



- New terminal designed to reduce the heating
- Loosening compensator is provided on the terminals
- Better grip with the cable
- Temperature rise of -20%



Electrical performance

- Improved selectivity and co-ordination with upstream power products
- Better service continuity
- High back up values

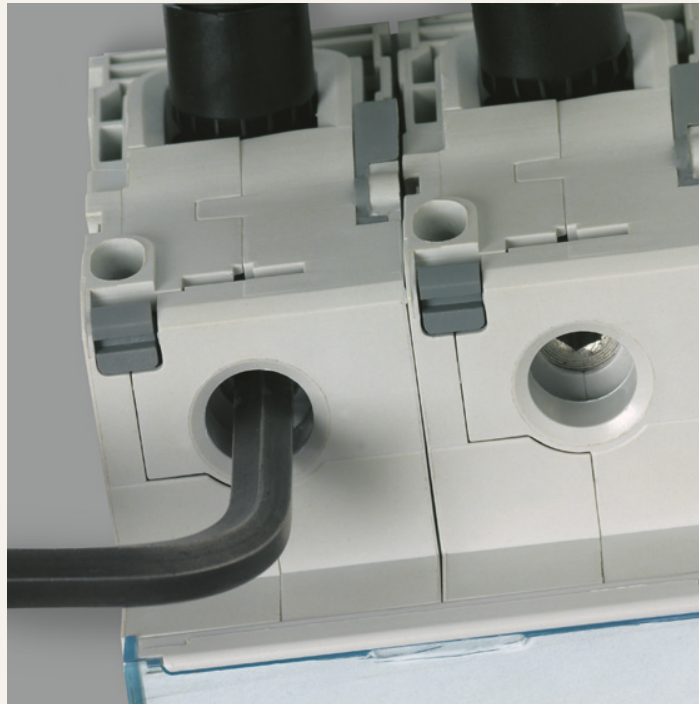
Downstream mcb : DX ≤10000A	Upstream mcb : DX ³ 25kA, 36kA, 50kA - (curve C)								
	20A	25A	32A	40A	50A	63A	80A	100A	125A
≤ 4A	150A	187A	1200A	1500A	2000A	T	T	T	T
≤ 6A	150A	187A	700A	1200A	1500A	3000A	4000 A	T	T
10A	150A	187A	500A	700A	1000A	1800A	3000 A	5000A	T
16A	150A	187A	300A	500A	700A	1300A	2000 A	3600A	5500A
20A		187A	300A	400A	500A	1000A	1600 A	3000A	4000A
25A			240A	400A	500A	800A	1300 A	2400A	3300A
32A				300A	500A	600A	1000 A	1800A	2700A
40A					400A	600A	800A	1600A	2400A
50A						500A	800A	900A	1700A
63A							650A	900A	1200A

Mechanism

- Double break mechanism to break high current circuits
- Better performance
- Better life of terminals

Rising clamp terminals

- High quality connections
- Durable connections



Auxiliaries

- Complete range of auxiliaries for all application
- Most comprehensive range



CA - Auxiliary signaling contact

SD - Fault signaling contact

ET - Shunt trip

UT - Undervoltage

POP - Overvoltage

MT - Motor operator

Auxiliary - fitment

Unique

- Tool-less fitment of auxiliaries
- Makes complete assembly robust
- Easy accessibility of the terminals
- Makes installer's work easier



Auxiliary operating range

- Operating range
 - Auxiliaries can be used for AC as well as DC applications

Un in AC	5 V to 60 V	110 to 230 V	400 V
Imax	10 A	6 A	3 A

Un in DC	12 to 24 V	48 to 60 V	110 to 230 V
Imax	4 A	1 A	0.5 A

Auxiliary

- POP
 - Power Overvoltage Protection

	255 V	275 V	300 V	350 V	400 V
Breaking time	No tripping	15 Sec	5 Sec	0.75 Sec	0.2 Sec
Non actuation time		3 Sec	1 Sec	0.25 Sec	0.07 Sec



Indication

- Color code indicators on the control auxiliaries
- Test button on front for fault signaling contact
- Allows testing of signaling functions



Motor operator

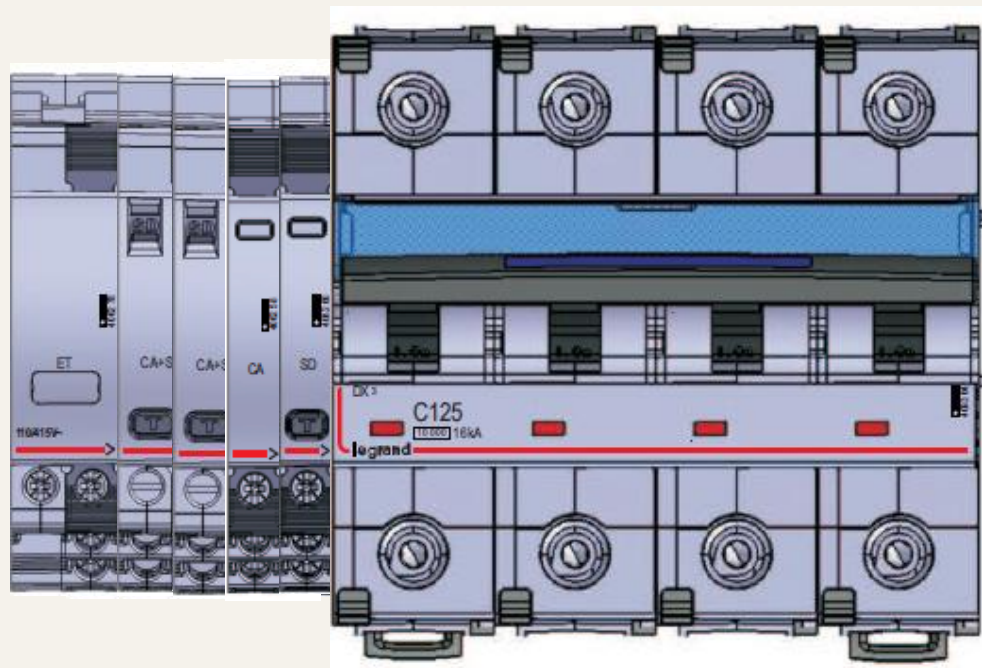
Unique

- Single module size
- Most compact motor operator for modular devices



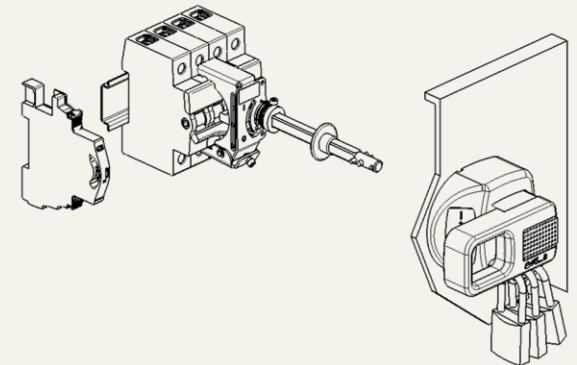
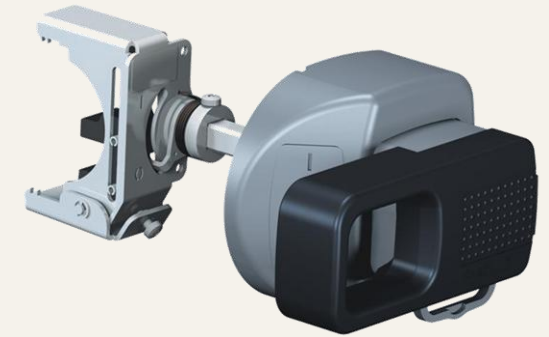
Freedom of configuration

- 3 auxiliaries can be connected to each device
- Better control of circuits



Rotary handle

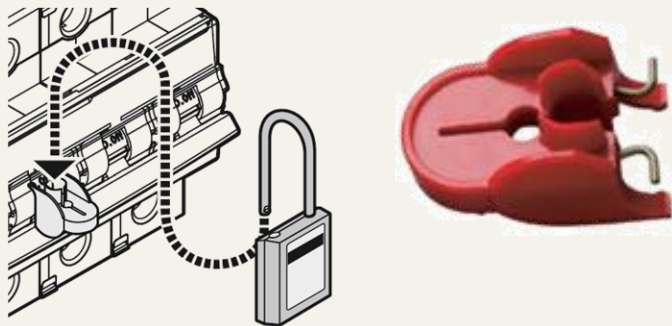
- To be able to control (open or close) the associated modular device without opening the enclosure
- Markets: commercial, industrial, hospital
- The rotary handle maintains the good IP level of the enclosure.
- Compatible with all the Legrand modular references started from 2 pole: all ranges and all devices (MCBs, RCCBs, RCBOs, Isolating switches in 1 or 1.5 module up to 125A)

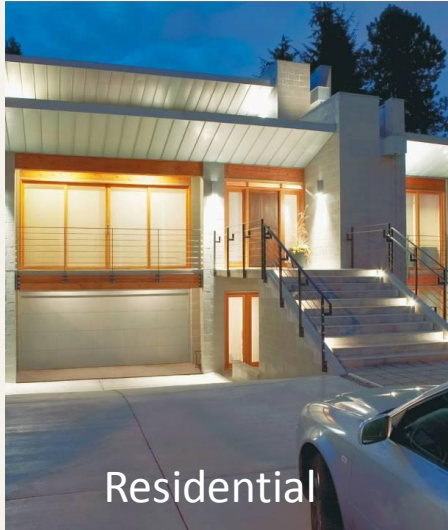


- Small padlock (cat no 4063 13): Ø5 mm padlock



- Support for one padlock (cat no 4063 03):
for large or small padlock. Enable to lock modular MCBs,
RCBOs, RCCBs and Isolator Switches in OFF position.





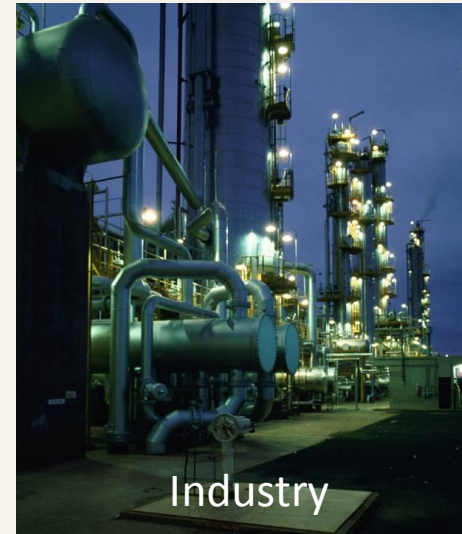
Residential



Commercial



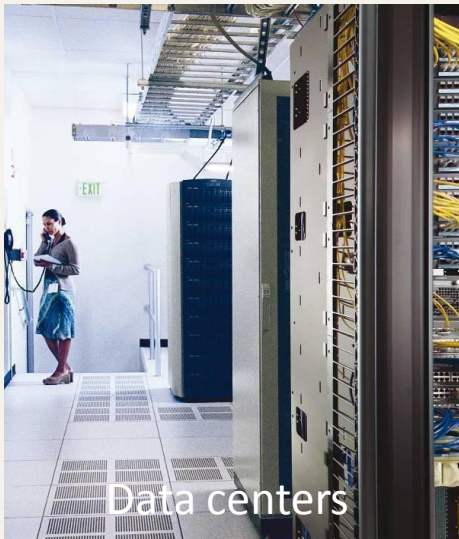
Airports



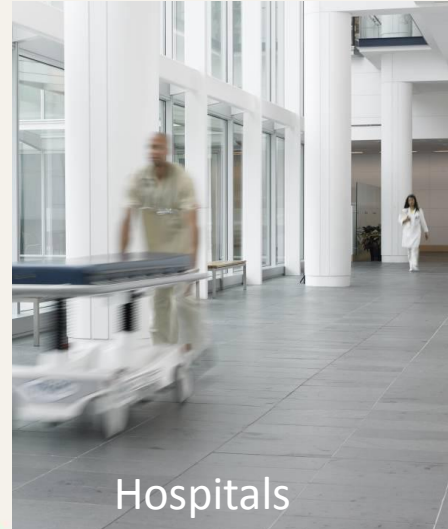
Industry



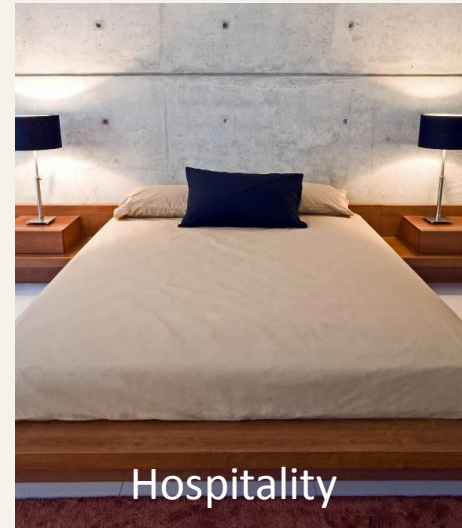
Process industry



Data centers



Hospitals



Hospitality