

# Make a Safe Electrical Installation In Indonesia

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- SNI : Standar Nasional Indonesia
- The only nationally accepted standard in Indonesia

The SNI is formulated by fulfilling the WTO Code of Good Practice:

- Openness
- Transparency
- Consensus and impartiality
- Effectiveness and relevance
- Coherence
- Development dimension

## Some of SNI standards :

No	SNI Number and Title	Application
1	<b>04-0225-2000</b> Persyaratan umum instalasi listrik 2000 (PUIL 2000)	Low Voltage Installation
2	<b>04-3892.1-2001</b> Tusuk-kontak dan kotak-kontak untuk keperluan rumah tangga dan sejenisnya.	Socket
3	<b>04-6203.1-2001</b> Sakelar untuk instalasi listrik tetap rumah tangga dan sejenisnya	Switch
4	<b>04-6507.1-2002</b> Pemutus Sirkuit untuk Proteksi Arus Lebih pada Instalasi Rumah Tangga dan Sejenisnya	MCB

# Highlight on Installation Standard SNI 04-0225-2000 (PUIL 2000)

- Chapter 1 & 2: Scope, Object Fundamental Principles and Definitions  
(Adapted from IEC 60364-1 Part 1 and Part 2)
- Chapter 3: Protection for Safety (Adapted from IEC 60364 Part 4)
- Chapter 4: Assessment of General Characteristics  
(Adapted from IEC 60364 Part 3)
- Chapter 5: Selection and erection of electrical equipment  
(Adapted from IEC 60364 Part 5)
- Chapter 6,7,8, and 9:  
Control Panel, Cable and It's Installation,  
Requirements for special installations or locations, and Verifications.

## Good Electrical Equipment Selection

Good electrical equipment will improve the quality of the installation, so there will be no installation failure such as :

- the resistance value of the installation is too low
- there is a leakage current that can result in electric fires

Select electrical equipment marked with SNI especially those included in compulsory SNI.

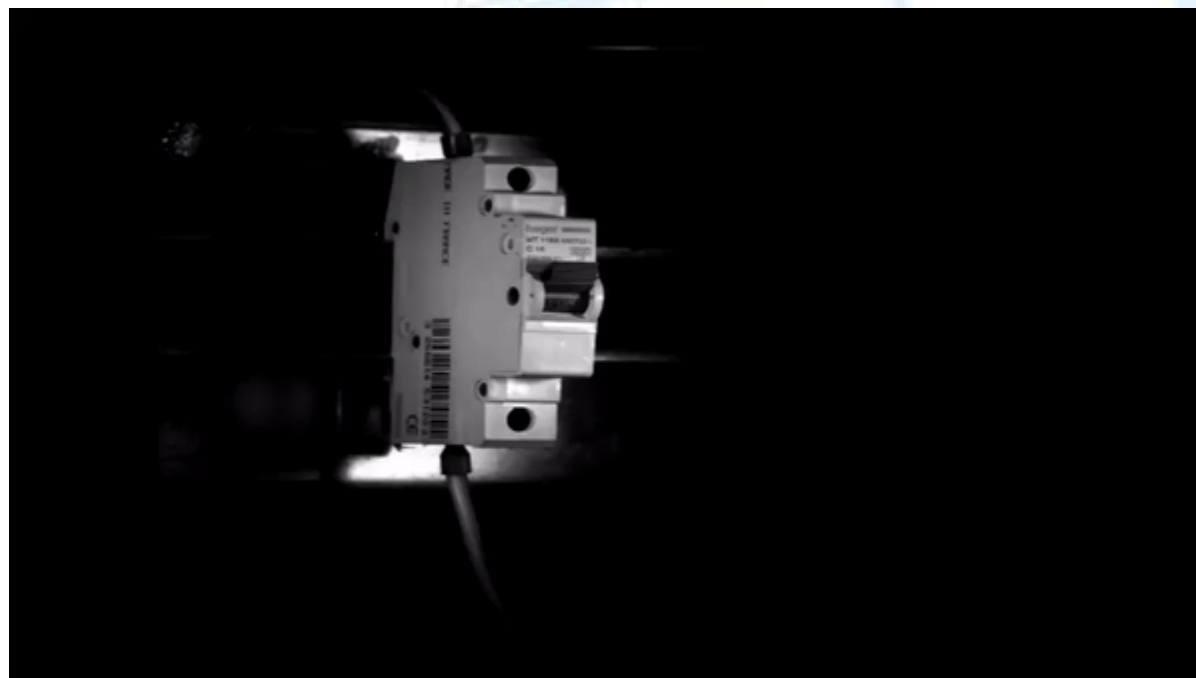
Do not use copycat / substandard goods



# 73%

1139 fire case in Jakarta 2016  
836 caused by bad electrical installations/goods

## Example of using bad quality MCB



## Evolution of Copycat MCB



original

The part that are commonly being removed is the copper coil



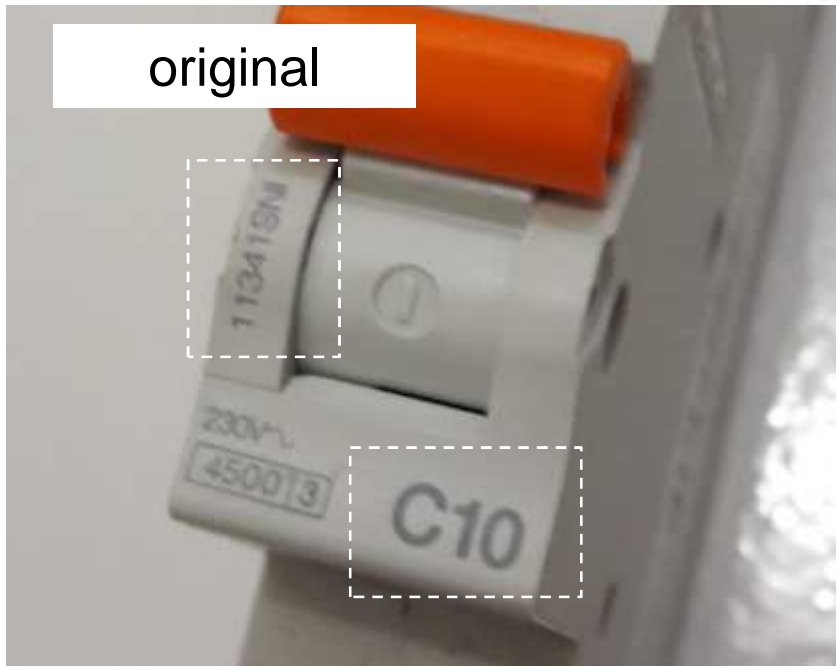
## How to identify Copycat MCB ?



Original: barcode printed using laser print  
(not too black, detail, good quality)

Copycat: barcode printed using carbon print  
(very black, not detail, bad quality)

# How to identify Copycat MCB ?



Pengenal (A)	Referensi
2	DOM12251SNI
4	DOM12252SNI
6	DOM11340SNI
10	DOM11341SNI
16	DOM11342SNI
20	DOM11343SNI
25	DOM11344SNI
32	DOM11345SNI
40	DOM11346SNI
50	DOM11335SNI
63	DOM11336SNI

Original MCB:  
 Reference number matches with  
 Ampere Rating

A large, faint, light blue globe with a grid pattern is centered in the background of the slide.

**THANK YOU**