

# ENSTO

## TUR

Low Voltage Distribution  
Panelboard



**Better life.**  
With electricity.

TUR panelboards form the low voltage part of HV/LV indoor substations.

They allow to:

- easily supply the electric power with a small-scale and adjustable configuration (up to 4, 5 or 8 outgoing feeders)
- isolate the low voltage by switch-disconnector (power up to 1000 kVA).
- protect by HPC fuses the outgoing feeders.

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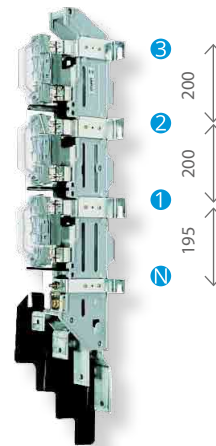
# TUR

## Low Voltage Distribution Panelboard

### Description

TUR panelboards comprise:

- A four-phases load break switch-disconnector with a visible opening: 800 A, 1200 A or 1800 A.
- Interchangeable LV outgoing feeders, protected by 3 fuses (up to 400 A) that can be operated under load. Neutral phase can be disconnected by an included rotary bar.
- Optional:
  - Public lighting protection device (ACG).
  - Station lighting protection device (EP).
  - Reservation panels (to avoid active parts touching when no outgoing feeder is mounted on the panelboard).
  - Lock panels (to condemn an outgoing feeder when fuses are removed)



### Panelboard range

	TR4-800 I	TR5-1200 I
Power of transformer	400 kVA	630 kVA
Switch	800 A	1200 A
Out going Feeder Max	4	5
Dimensions (mm)	1450 x 630 x 450	1450 x 650 x 450

	TR8-1200 I	TR8-1800 I
Power of transformer	630 kVA	1000 kVA
Switch	1200 A	1800 A
Out going Feeder Max	8	8
Dimensions (mm)	1450 x 900 x 450	1450 x 900 x 540

### Technical characteristics

Our TUR panelboard are complying with specification HN 63-S-61 (February 1979):

- Dielectric strength:
  - Power frequency withstand voltage (50 Hz): 10 kV
  - Lightning impulse withstand voltage (BIL): 20 kV
- Temperature-rise
- Short time withstand current:
  - TR4-800 I : 16 kA rms 0,5s
  - TR5-1200 I : 25 kA rms 0,5s
  - TR8-1200 I : 25 kA rms 0,5s
  - TR8-1800 I : 32 kA rms 0,5s
- Breaking current:
  - TR4-800 I : 800 A rms at 440 V Cosφ 0,90
  - TR5-1200 I : 1200 A rms at 440 V Cosφ 0,90
  - TR8-1200 I : 1200 A rms at 440 V Cosφ 0,90
  - TR8-1800 I : 1800 A rms at 440 V Cosφ 0,90
- Short-circuit making current, limited by fuses:
  - TR4-800 I : 32 kA peak at 440 V Cosφ 0,35
  - TR5-1200 I : 52 kA peak at 440 V Cosφ 0,25
  - TR8-1200 I : 52 kA peak at 440 V Cosφ 0,25
  - TR8-1800 I : 72 kA peak at 440 V Cosφ 0,20
- The switch-disconnector works with sudden making and breaking (independent of the manual operation's speed). On opening, the transformer's neutral is automatically grounding. The switches are characterized by a double lateral breaking in a molded box (according to specification HN 63-S-61).

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