

# MCCBs for power distribution

Susol

## Electronic trip units (Standard type)

The new series of Susol TS series molded case circuit breakers for AC networks can be equipped with ETS23, ETS33 and ETS43. The trip units can be fitted with three (3) pole TS100 to TS800. The wide range of adjustments makes the trip units particularly suitable in all distribution applications where reliability and trip precision are required.

### Function

Protection of power distribution

- Overload protection
- Short-circuit protection

### Ratings

Rated current, In (A)	40
	80
	160
	250
	400
	630
	800
Applicable to	

Trip units					
ETS23			ETS33		ETS43
●	●	●	-	-	-
●	●	●	-	-	-
-	●	●	●	●	-
-	-	●	●	●	-
-	-	-	●	●	-
-	-	-	-	●	●
-	-	-	-	-	●
TS100 N/H/L	TS160 N/H/L	TS250 N/H/L	TS400 N/H/L	TS630 N/H/L	TS800 N/H/L

### Current setting, Ir(A)

ETS	
ETS23 for TS100N/H/L	
ETS23 for TS160N/H/L	
ETS23 for TS250N/H/L	
ETS33 for TS400N/H/L	
ETS33 for TS630N/H/L	
ETS43 for TS800N/H/L	

16	32	40	64	80	100	160	250	320	400	630	800

### Setting values

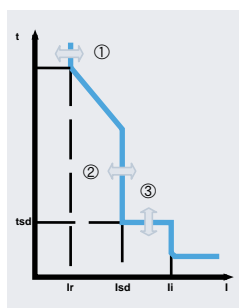
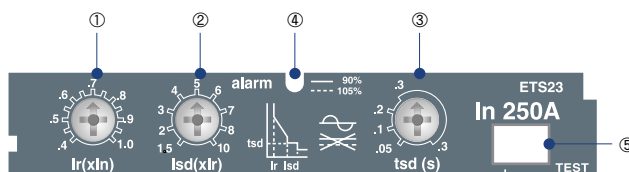
Overload protection (long time)	
Setting current (A), Ir	0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, $1.0 \times I_n$ , 13 setting
Tripping time (s)	Fixed at $6 \times I_r$ , tolerance $\pm 20\%$
Short-circuit protection (short time)	
Tripping threshold (A), I <sub>sd</sub>	adjustable 1.5, 2, 3, 4, 5, 6, 7, 8, $10 \times I_r$ , 9 setting, tolerance $\pm 15\%$
Time delay (ms)	adjustable 50, 100, 200, 300, 4 setting, tolerance $\pm 20\%$
Short circuit protection (Instantaneous)	
Tripping threshold (A), I <sub>i</sub>	Fixed at $11 \times I_n$

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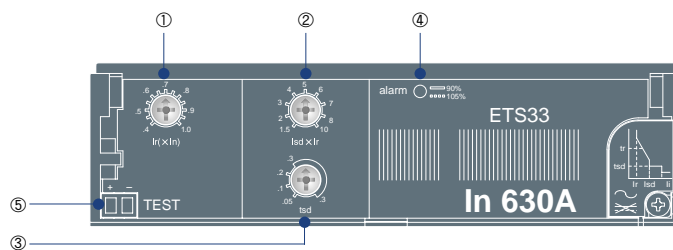
**Susol**

- ① Adjustable rated current setting ( $I_r$ )
- ② Adjustable short time delay current setting ( $I_{sd}$ )
- ③ Adjustable time delay setting ( $t_{sd}$ )
- ④ Alarm LED  
90%  $I_r$ : ON,  
105%  $I_r$  or more: ON-OFF
- ⑤ Test connector

## ETS23 for TS100/TS160/TS250



## ETS33 for TS400/TS630



## ETS43 for TS800

