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Protection functions	ANSI code	S20	S24 <sup>(3)</sup>	S40	C60	C86
Phase overcurrent <sup>(1)</sup>	50/51	4	4	4	4	8
Phase overcurrent cold load pick-up	CLPU 50/51		1			
Earth fault / Sensitive earth fault <sup>(1)</sup>	50N/51N 50G/51G	4	4	4	4	8
Earth fault cold load pick-up	CLPU 50N/51N		1			
Breaker failure	50BF		1	1	1	1
Negative sequence / unbalance	46	1	1	2	2	2
Thermal overload for capacitors <sup>(1)</sup>	49RMS				1	1
Capacitor-bank unbalance	51C					8
Positive sequence undervoltage	27D				2	2
Remanent undervoltage	27R				2	2
Undervoltage (L-L or L-N)	27			2	2	4
Overvoltage (L-L or L-N)	59			2	2	4
Neutral voltage displacement	59N			2	2	2
Negative sequence overvoltage	47			1	2	2
Overfrequency	81H			2	2	2
Underfrequency	81L			4	4	4
Temperature monitoring (8/16 RTDs) <sup>(2)</sup>	38/49T				□ 8/16 RTDs	□ 8/16 RTDs

The figures indicate the number of units available for each protection function

■ standard, □ options.

(1) Protection functions with 2 groups of settings.

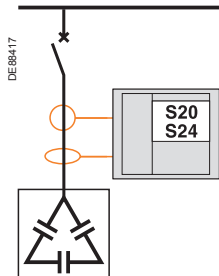
(2) With optional MET148-2 temperature input modules.

(3) Applications S24 and T24 perform the functions of applications S23 and T23 respectively.

## Capacitor bank protection

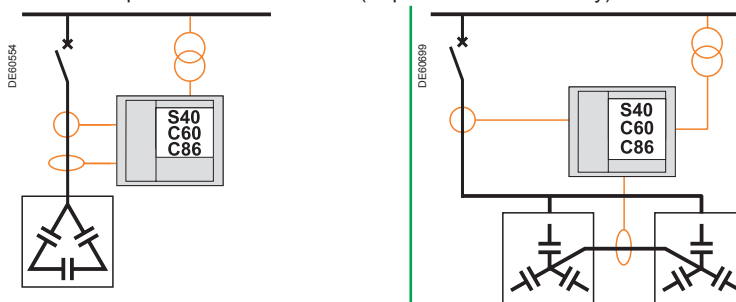
### Protection of a capacitor bank (delta connection) without voltage monitoring: Sepam S20, S24

- capacitor bank short-circuit protection.



### Protection of a capacitor bank with voltage monitoring: Sepam S40, C60 or C86

- capacitor bank short-circuit protection
- voltage and frequency monitoring
- overload protection: ANSI 49RMS (Sepam C60 and C86 only).



### Protection of a double-star connected capacitor bank with 1 to 4 steps: Sepam C86

- capacitor bank short-circuit protection
- voltage and frequency monitoring
- specific overload protection, self-adapted to the number of connected steps
- unbalance protection: 51C.

