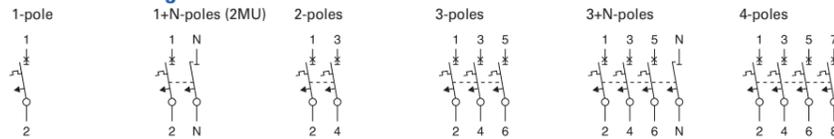


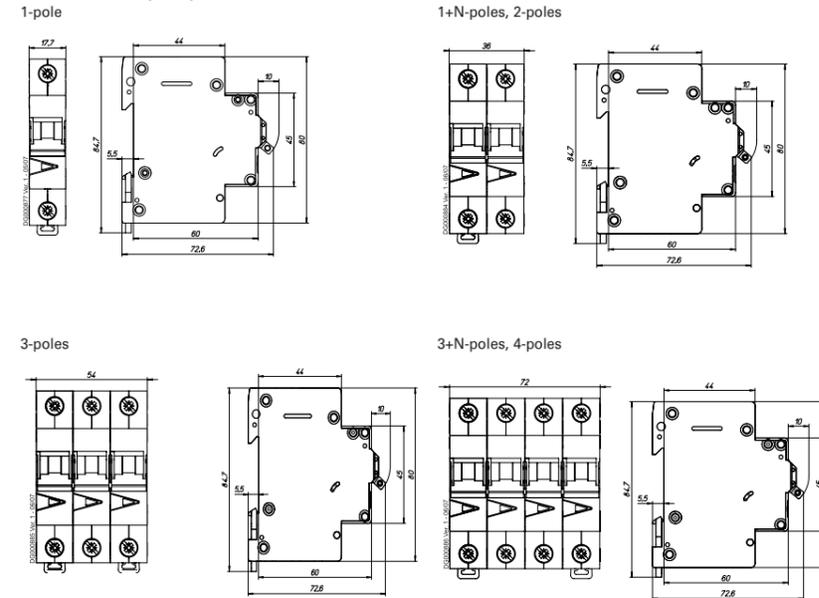
## Technical Data

Electrical	K Characteristic	S Characteristic	Z Characteristic
Approvals	UR (UL 1077), CE	UR (UL 1077), CSA (CSA 22.2 No. 235) for 1-16 A, CE	UR (UL 1077), CE
Standards	IEC/EN 60947-2		
Classified according to	IEC 61373, EN 45545-2		
Current test marks as printed onto the device			
Short-circuit trip response	8–12 I <sub>n</sub>	13–17 I <sub>n</sub>	2–3 I <sub>n</sub>
<b>Supplementary Protectors - UL/CSA</b>			
Current range	1–63 A	1–40 A	0.5–63 A
Maximum voltage ratings - UL/CSA			
Single-pole, single-pole + neutral	277 V AC > 60 V DC	277 V AC > 60 V DC	277 V AC > 60 V DC
Two-, three-, four-pole and three-pole + neutral	480Y/277 V AC	480Y/277 V AC	480Y/277 V AC
Two poles in series	> 125 V DC	> 125 V DC	96 V DC
Thermal tripping characteristics			
Single-pole	< 1 hour @ 1.35 x I <sub>n</sub> @ 40°C	< 1 hour @ 1.35 x I <sub>n</sub> @ 40°C	< 1 hour @ 1.35 x I <sub>n</sub> @ 40°C
Multi-pole	< 1 hour @ 1.45 x I <sub>n</sub> @ 40°C	< 1 hour @ 1.45 x I <sub>n</sub> @ 40°C	< 1 hour @ 1.45 x I <sub>n</sub> @ 40°C
Short-circuit ratings (at max. voltage)			
Single-pole	5 kA @ 277 V AC	5 kA @ 277 V AC	5 kA @ 277 V AC
Single-pole + neutral	5 kA @ 277 V AC	5 kA @ 277 V AC	5 kA @ 277 V AC
Two-, three-, four-pole	5 kA @ 480Y/277 V AC	5 kA @ 480Y/277 V AC	5 kA @ 480Y/277 V AC
<b>Miniature Circuit Breaker - IEC</b>			
Current range	0.5–63 A	0.5–40 A	1–63 A
Maximum voltage ratings - IEC 60947-2			
Single-pole, single-pole + neutral	240 V AC	240 V AC	240 V AC
Single-pole	> 120 V DC	> 120 V DC	> 120 V DC
Two-, three-, four-pole and three-pole + neutral	415 V AC	415 V AC	415 V AC
Thermal tripping characteristics			
	> 1 hour @ 1.05 x I <sub>n</sub> @ 40°C	> 1 hour @ 1.05 x I <sub>n</sub> @ 40°C	> 1 hour @ 1.05 x I <sub>n</sub> @ 40°C
	< 1 hour @ 1.3 x I <sub>n</sub> @ 40°C	< 1 hour @ 1.3 x I <sub>n</sub> @ 40°C	< 1 hour @ 1.3 x I <sub>n</sub> @ 40°C
Interrupt ratings (at max. voltage)			
IEC 60947-2	10 kA	10 kA	10 kA
Service short circuit breaking capacity- I <sub>cs</sub>	5 kA	5 kA	5 kA
Max. back-up fuse [gL/gG]	125 A	125 A	125 A
Rated impulse withstand voltage - U <sub>imp</sub>	4000 V AC	4000 V AC	4000 V AC
Rated insulation voltage - U <sub>i</sub>	440 V AC	440 V AC	440 V AC
<b>Environmental / General</b>			
Selectivity class	3	3	3
Endurance (operations)	>10000 (1 operation = ON/OFF)	>10000 (1 operation = ON/OFF)	>10000 (1 operation = ON/OFF)
Shock (IEC 68-2-22)	10 g / 120 ms	10 g / 120 ms	10 g / 120 ms
Operating temperature range	-40°C up to +75°C	-40°C up to +75°C	-40°C up to +75°C
Storage- and transport temperature	-40°C up to +75°C	-40°C up to +75°C	-40°C up to +75°C
<b>Mechanical</b>			
Device height	80 mm	80 mm	80 mm
Terminal protection	Finger and back-of-hand proof	Finger and back-of-hand proof	Finger and back-of-hand proof
Mounting width per pole	17.5 mm	17.5 mm	17.5 mm
Mounting	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail
Degree of protection	IP20	IP20	IP20
Terminals top and bottom	Twin-purpose terminals	Twin-purpose terminals	Twin-purpose terminals
Supply connection	Line or load side	Line or load side	Line or load side
Terminal capacity [mm <sup>2</sup> ]	1 x 25 / 2 x 10	1 x 25 / 2 x 10	1 x 25 / 2 x 10
Torque of terminals	2.4 Nm	2.4 Nm	2.4 Nm
Thickness of busbar material	0.8 - 2 mm	0.8 - 2 mm	0.8 - 2 mm
Mounting position	As required	As required	As required

## Connection diagram



## Dimensions (mm) FAZ

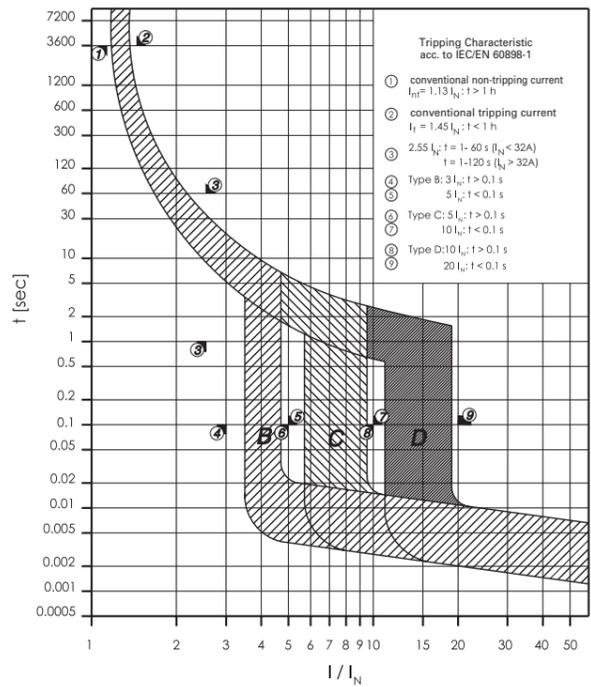


## Additional I<sub>cu</sub> values for 2A and 4A FAZ type B and C (IEC/EN 60947-2)

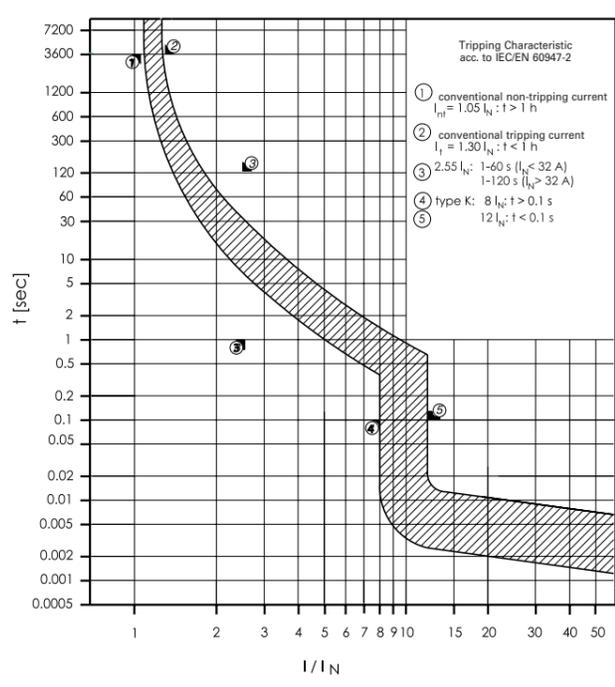
		100-133 V	220-240 V	380-415 V
1-pole	2A	70	70	
	4A	70	70	
2-pole	2A	70	70	70
	4A	70	70	70
3-pole	2A	70	70	70
	4A	70	70	70
4-pole	2A	70	70	70
	4A	70	70	70

Tripping Characteristics FAZ

Characteristics B, C and D - IEC/EN60898-1

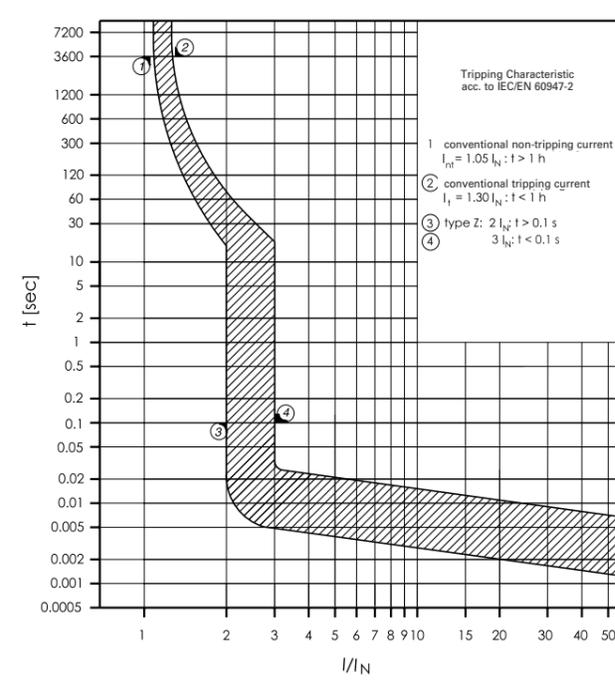


Characteristic K - IEC/EN 60947-2

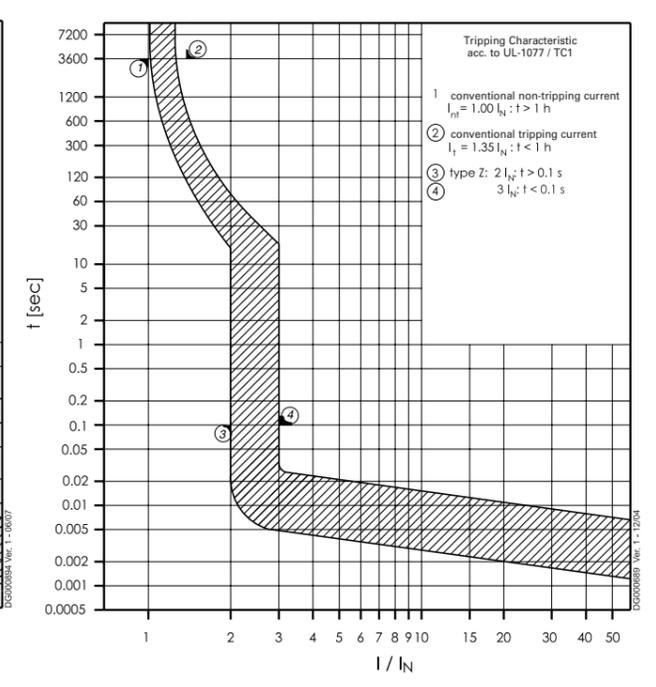


Tripping Characteristics FAZ

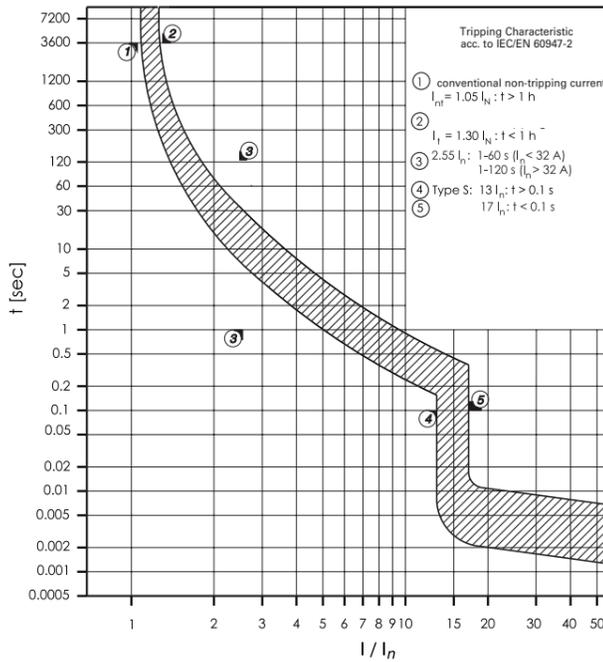
Characteristic Z - IEC/EN 60947-2



Characteristic Z - UL1077



Characteristic S - IEC/EN 60947-2



Characteristic S - UL1077

