



### Miniature Circuit-Breaker Series 8562

- Explosion protection to
  - CENELEC
  - IEC
- Can be used in Zone 1 and Zone 2
- Power limitation class 3
- Permanently set thermal and magnetic trips
- 1- to 4-pole versions
- Rated current from 0,5 A to 32 A
- 6 kA or 10 kA breaking capacity to DIN VDE 0641 respectively, EN 60898

STAHL

Series 8562/4 miniature circuit-breakers meet all technical requirements relating to safe and selective tripping. When short-circuits occur, they restrict the load on the installed circuits due to their excellent current limiting and related high breaking capacity and provide a high level of discrimination for line-side fuses.

# Zone 1 and Zone 2

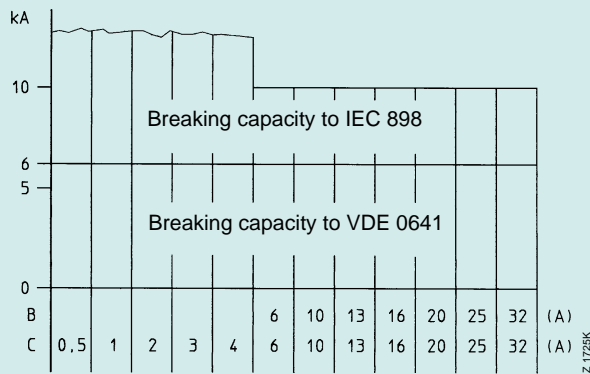
**Backup-protection**

Fusible links must be incorporated in-line to protect miniature circuit-breakers in high-power circuits against short-circuit currents. These protect the miniature circuit-breakers from short circuit currents of up to 50kA.

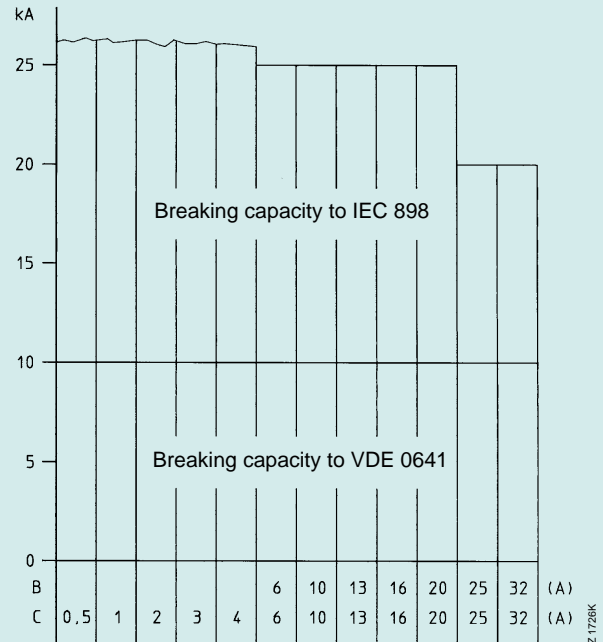
When breakdowns occur, both protective devices shut off together so that the circuit-breaker is not damaged and remains fully functional (back-up protection).

**Breaking capacity**

According to the standard test conditions specified in international standard IEC 898, the 10kA series has a rated breaking capacity of 25A up to 20kA.



6-kA-series

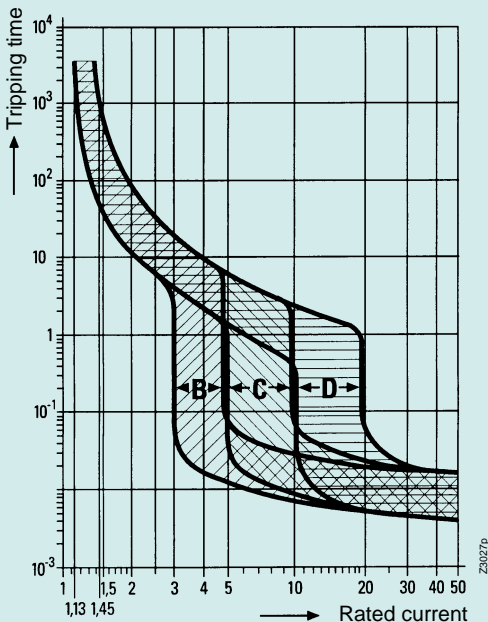


10-kA-series

**Rated current and tripping characteristics**

The MCBs are available with tripping characteristics B, C and D to DIN VDE 0641 and EN 60 898.

**B-, C- and D tripping characteristics**



**B characteristics**

Rated current range 0,5 A to 32 A.

Thermal operating limit

1,13 up to 1,45 times rated current (reference ambient temperature 30° C).

Electromagnetic operating limit 5 to 10 times rated current.

MCBs with B characteristic are mainly used for lighting socket-outlet and control circuits protection.

**C characteristics**

Rated current range 0,5 A up to 32 A.

Thermal operating limit

1,13 up to 1,45 times rated current (reference ambient temperature 30° C).

Electromagnetic operating limit 5 to 10 times rated current.

MCBs with C characteristic are used mainly for overload and short-circuit protection of devices with a high inrush current (e.g. motors, light fittings arranged in groups and transformers).

**D characteristics (on request)**










Thermal operating limit

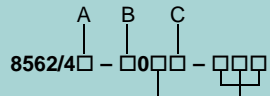
1,13 to 1,45 times rated current (reference ambient temperature 30° C)

Electromagnetic operating limit 10 to 20 times rated current.

Miniature circuit-breakers with D characteristics ensure that devices with a very high inrush current (e.g. motors which are difficult to start, light fittings arranged in groups and transformers) do not trip out too early.



Schematic															
Auxiliary contact: without	1	1	0	2	5	0	2	2	0	3	3	0	4	4	0
 1 S	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-
 1 Ö	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
 1 W	2	1	4	3	5	4	3	2	4	4	3	4	4	4	4
 1 W <sup>1)</sup>	2	1	5	3	5	5	3	2	5	4	3	5	4	4	5
	A <sup>2)</sup>	B	C	A <sup>2)</sup>	B	C	A <sup>2)</sup>	B	C	A <sup>2)</sup>	B	C	A <sup>2)</sup>	B	C



Characteristics	Breaking capacity		Rated current		Weight [kg]
B characteristics	6 kA	1	6 A	060	1 p: 0,52
			10 A	100	
			13 A	130	
	10 kA	2	16 A	160	2 p: 1,04
			20 A	200	
			25 A	250	
C characteristics	6 kA	3	32 A	320	3 p: 1,4
			0,5 A	005	
			1 A	010	
			2 A	020	
			3 A	030	
			4 A	040	
	10 kA	4	6 A	060	3 p: 1,4
			10 A	100	
			13 A	130	
			16 A	160	
			20 A	200	
			25 A	250	
32 A	320				

<sup>1)</sup> Fault indication contact

<sup>2)</sup> Width: 1 = 36 mm 2 = 54 mm 3 = 72 mm 4 = 99 mm



**Technical data**

Explosion protection	EEx de IIC T6 (to 16 A) EEx de IIC T5 (20 A ... 32 A)
Test certificate	PTB Nr. Ex-92.C.1071 U
Enclosure material	Epoxy resin
Rated working voltage	1-pole 240/415 V, AC, 48 V DC 2-pole 110 V, DC 2/3/4 pole 415 V, AC DC and AC MCBs on request
Maximum voltage	$U_m = 440$ V, AC; between conductors in 3-phase power supply
Frequency	50/60 Hz
Characteristics	B- or C-Characteristic, meets the highest selectivity class 3 B-design: pick-up value of magnetic trip 3 ... 5 x rated current C-design: pick-up value of magnetic trip 5 ... 10 x rated current
Back-up fuse	max. 160 A, back-up protection 25/50 kA
Terminals	1,5 ... 10 mm <sup>2</sup> clamp terminals
Ambient temperature	- 20° C ... + 40° C
<b>Auxiliary contact</b>	
Version	Options: 1 NO, 1 NC, 1 CO, 1 CO as a fault indication contact
Rated working voltage	max. 240 V, AC
Rated working current	5 A, 230 V, AC 1 A at 60 V, DC
Terminals	1,5 mm <sup>2</sup> clamp terminals

**Dimensions**, all dimensions in mm – subject to alteration

