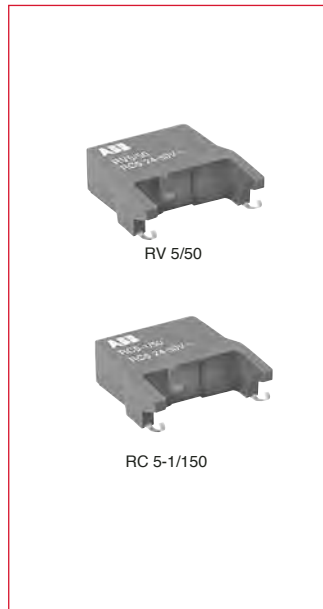


Accessories

Surge suppressors for A/AE/AL/EK contactors

Across the line
contactors

1



Surge suppression device

| Mounting on | Voltage range | Catalog number | List price |
|---|---|--|------------|
| AE9 to AE110 AL9 to AL40 | 12 – 32 VDC 25 – 65 VDC 50 – 90 VDC 77 – 150 VDC 150 – 264 VDC | RT5/32 RT5/65 RT5/90 RT5/150 RT5/264 | \$ 30 |
| A9 to A110; AE9 to AE110 AL9 to AL40 | 24 – 50 VAC/VDC 50 – 133 VAC/VDC 110 – 250 VAC/VDC 250 – 440 VAC/VDC | RV5/50 RV5/133 RV5/250 RV5/440 | |
| A9 to A40 | 24 – 50 VAC 50 – 133 VAC 110 – 250 VAC 250 – 440 VAC | RC5-1/50 RC5-1/133 RC5-1/250 RC5-1/440 | |
| A45 to A300 | 24 – 50 VAC 50 – 133 VAC 110 – 250 VAC 250 – 440 VAC | RC5-2/50 RC5-2/133 RC5-2/250 RC5-2/440 | |
| EK110 to EK210 | 24 – 48 VAC 110 – 415 VAC | RC-EH250/48 RC-EH250/415 | 26 |
| EK370 to EK550 | 48 – 110VAC | RC-EH800/110 | |
| EK110 to EK550 | 24 – 125VAC | RC-EH800/110 | |
| EK370 to EK550 | 220 – 600VAC | RC-EH800/600 | |

Technical data

| Type | Control circuit | Opening time growth factor | Residual overvoltage or clipping voltage | Remarks |
|---|--|----------------------------|--|--|
| RT 5 /... transil diode | 32 DC 65 DC 90 DC 150 DC 264 DC | 2.5 to 3 | 50 V 100 V 150 V 210 V 390 V | Advantages <ul style="list-style-type: none"> • Good energy absorption • Unpolarized system • Simple, reliable system Drawback <ul style="list-style-type: none"> • A certain delay on drop out which does not however reduce contactor breaking capacity. |
| Varistor | RV 5/... 50 AC/DC 133 AC/DC 250 AC/DC 440 AC/DC | 1.1 to 1.5 | 132 V 270 V 480 V 825 V | Advantages <ul style="list-style-type: none"> • High energy absorption; good damping • Unpolarized system Drawback <ul style="list-style-type: none"> • Clipping as from U_{vdr}, thus voltage front up to this point |
| RC 5-1/... or RC 5-2/... RC-EH 300/... | see table above AC | 1.2 to 3 | 2 to 3 x U_c | Advantages <ul style="list-style-type: none"> • Very fast clipping • Attenuation of steep fronts and thus of high frequencies • No operating delays |
| Varistor + RC | RC-EH ... 800/110 AC/DC 800/600 AC | 1.1 to 1.5 | 205 V 1100 V | Advantages <ul style="list-style-type: none"> • High energy absorption: good damping • Unpolarized system • The RC system damps the voltage front under the U_{vdr}^* threshold. |

* U_{vdr} = Varistor operating voltage (voltage dependent resistor), tolerance $\pm 10\%$