

## Accessories

### Type N, NL, NE & TNL



ZA16-84

#### Coils

Relay type	Catalog number	List price
N	ZA16-★	\$ 24
NE	ZAE16-★	24

★ Select the coil voltage from the Control Relay Coil Voltage Selection chart and substitute the letter code for the ★ as the last digit in the catalog number.

#### Coil voltage selection chart

Hz	Relay type	Volts															
		12	24	48	110	120	125	208	220	240	277	380	415	440	480	500	600
60	N		81	83	84	84		34	36	80	42		86	86	51	53	55
50	N		81	83	84				80			85	86				55
DC	NE, NL	80	81	83	86		87		88	89							

#### Surge suppressors — for Type N control relays

Feature	Type	Voltage range	Catalog number	List price
Varistor	N, NE NL, TNL	24 – 50 VAC/DC	RV5/50	\$ 30
		50 – 133 VAC/DC	RV5/133	
		110 – 250 VAC/DC	RV5/250	
		250 – 440 VAC/DC	RV5/440	
RC	N	24 – 50 VAC	RC5-1/50	\$ 30
		50 – 133 VAC	RC5-1/133	
		110 – 250 VAC	RC5-1/250	
		250 – 440 VAC	RC5-1/440	

#### Technical data

Type	Control circuit	Opening time growth factor	Residual overvoltage or clipping voltage	Remarks
RV5/...	50	AC/DC	1.1 to 1.5	Advantages • Good energy absorption & damping • Unpolarized system Disadvantages • Clipping from $U_{vdr}$ , thus voltage front up to this point
	133	AC/DC	1.1 to 1.5	
	250	AC/DC	1.1 to 1.5	
	440	AC/DC	1.1 to 1.5	
RC5-1/... or RC5-2/... RC-EH300/...	AC	1.2 to 3	2 to 3 x $U_c$	Advantages • Very fast clipping • Attenuation of steep fronts and therefore, high frequencies • No operating delays