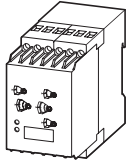
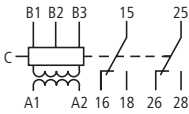
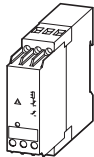
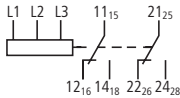
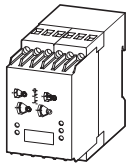
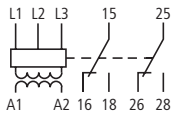
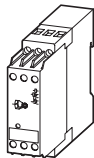
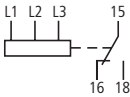


**EMR4 Measuring and Monitoring Relays**

Current monitors, phase sequence relays, phase monitors, phase imbalance monitors

Description	Current monitoring range $I \sim I =$	Contact symbol	Supply voltage	Type Article No.	Price see price list
<b>EMR4-I... current monitoring relay, single phase</b>					
 <ul style="list-style-type: none"> <li>Switching hysteresis adjustable 5 – 30 %</li> <li>Pickup delay 0,1 – 30 s</li> <li>EMR4...-A: monitoring of an upper or lower limit</li> <li>EMR4...-B: monitoring of an upper limit</li> <li>Expansion of monitoring range with current transformer</li> </ul>	3 – 30 mA 10 – 100 mA		24 – 240 V AC/DC	<b>EMR4-I1-2-A</b> 221781	
	0,1 – 1 A 0,3 – 1,5 A 1 – 5 A 3 – 15 A		24 – 240 V AC/DC	<b>EMR4-I15-2-A</b> 221782	
			220 – 240 V AC	<b>EMR4-I15-2-B</b> 221783	
<b>EMR4-F... phase sequence relays</b>					
 <ul style="list-style-type: none"> <li>Monitoring of AC circuits for phase sequence and phase failure (<math>&lt; 0,6 \times U_e</math>)</li> <li>Supply voltage = monitored voltage</li> </ul>	200 – 500 V AC		200 – 500 V AC	<b>EMR4-F500-2</b> 221784	
<b>EMR4-W... phase monitor relays</b>					
 <ul style="list-style-type: none"> <li>Monitoring of AC circuits for phase sequence, over- and undervoltage, and phase failure (<math>&lt; 0,6 \times U_e</math>)</li> <li>3-phase window voltage monitoring</li> <li>Pickup delay or off-delay can be selected (0,1 – 10 s)</li> </ul>	$U_{\min}$ 300 – 380 V AC $U_{\max}$ 420 – 500 V AC		160 – 300 V AC	<b>EMR4-W500-2-C</b> 221785	
			300 – 500 V AC	<b>EMR4-W500-2-D</b> 221786	
			$U_{\min}$ 350 – 430 V AC $U_{\max}$ 500 – 580 V AC	300 – 500 V AC	
<b>EMR4-A... phase imbalance monitoring relay</b>					
 <ul style="list-style-type: none"> <li>Monitoring of AC circuits for imbalance of phases</li> <li>Recognition of phase failure even with 95% voltage feedback of the motor</li> <li>Pickup delay 0,5 s</li> <li>Adjustable imbalance threshold of 5 – 15 %</li> <li>Phase sequence recognition</li> <li>Supply voltage = monitored voltage</li> </ul>	380 – 415 V 50 Hz		380 – 415 V 50 Hz	<b>EMR4-A400-1</b> 221788	