

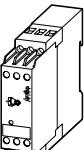
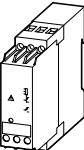
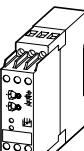
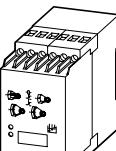
Ordering

Measuring and monitoring relays

xControl**EMR4...**

Moeller HPL0211-2007/2008

http://catalog.moeller.net

Description	Current measuring range $I \sim I =$ A	Contact sequence	Supply voltage	Part no. Article no.	Price see price list	Std. pack																																				
EMR4-I...current monitoring relays, single-phase																																										
	<ul style="list-style-type: none"> Switching hysteresis adjustable from 3 – 30 % Response delay 0.1 – 30 s Monitoring of one upper or lower limit Extension of the measurement range possible with current transformers 	<table border="1"> <tr> <td>3 – 30 mA</td> <td>B1</td> <td>B2</td> <td>B3</td> <td>15</td> <td>25</td> </tr> <tr> <td>10 – 100 mA</td> <td colspan="3"></td> <td colspan="2"></td> </tr> <tr> <td>0.1 – 1 A</td> <td colspan="3"></td> <td colspan="2"></td> </tr> <tr> <td>0.3 – 1.5 A</td> <td>C</td> <td>A1</td> <td>A2</td> <td>16</td> <td>18</td> </tr> <tr> <td>1 – 5 A</td> <td colspan="3"></td> <td>26</td> <td>28</td> </tr> <tr> <td>3 – 15 A</td> <td colspan="3"></td> <td colspan="2"></td> </tr> </table>	3 – 30 mA	B1	B2	B3	15	25	10 – 100 mA						0.1 – 1 A						0.3 – 1.5 A	C	A1	A2	16	18	1 – 5 A				26	28	3 – 15 A						24 – 240 V AC/DC	EMR4-I11-1-A 106942		1 off
3 – 30 mA	B1	B2	B3	15	25																																					
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3 – 15 A																																										
			24 – 240 V AC/DC	EMR4-I15-1-A 106943		1 off																																				
			220 – 240 V AC	EMR4-I15-1-B 106944		1 off																																				
EMR4-F... phase sequence relays																																										
	<ul style="list-style-type: none"> Monitors three-phase systems for phase sequence and phase failure ($< 0.6 \times U_e$) Supply voltage = voltage being monitored 	<table border="1"> <tr> <td>200 – 500 V AC</td> <td>L1</td> <td>L2</td> <td>L3</td> <td>11</td> <td>15</td> <td>21</td> <td>25</td> </tr> <tr> <td></td> <td colspan="3"></td> <td colspan="4"></td> </tr> <tr> <td></td> <td>12</td> <td>16</td> <td>14</td> <td>18</td> <td>22</td> <td>26</td> <td>24</td> </tr> <tr> <td></td> <td colspan="3"></td> <td colspan="4"></td> </tr> </table>	200 – 500 V AC	L1	L2	L3	11	15	21	25										12	16	14	18	22	26	24									200 – 500 V AC	EMR4-F500-2 221784		1 off				
200 – 500 V AC	L1	L2	L3	11	15	21	25																																			
	12	16	14	18	22	26	24																																			
EMR4-A... phase imbalance monitoring relays																																										
	<ul style="list-style-type: none"> Monitors three-phase systems for phase imbalance Detects phase failure even at 95% regeneration of the failed phase Response delay: 0.5 s Switching threshold adjustable from 5 – 15 % imbalance Phase sequence detection Supply voltage = voltage being monitored 	<table border="1"> <tr> <td>380 – 415 V 50 Hz</td> <td>L1</td> <td>L2</td> <td>L3</td> <td>15</td> <td>16</td> <td>18</td> </tr> <tr> <td></td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td>160 – 300 V 50 Hz</td> <td>L1</td> <td>L2</td> <td>L3</td> <td>15</td> <td>25</td> <td></td> </tr> <tr> <td>300 – 500 V 50 Hz</td> <td>L1</td> <td>L2</td> <td>L3</td> <td>15</td> <td>25</td> <td></td> </tr> <tr> <td></td> <td>16</td> <td>18</td> <td>26</td> <td>28</td> <td></td> <td></td> </tr> </table>	380 – 415 V 50 Hz	L1	L2	L3	15	16	18								160 – 300 V 50 Hz	L1	L2	L3	15	25		300 – 500 V 50 Hz	L1	L2	L3	15	25			16	18	26	28			380 – 415 V 50 Hz	EMR4-A400-1 221788		1 off	
380 – 415 V 50 Hz	L1	L2	L3	15	16	18																																				
160 – 300 V 50 Hz	L1	L2	L3	15	25																																					
300 – 500 V 50 Hz	L1	L2	L3	15	25																																					
	16	18	26	28																																						
			160 – 300 V 50 Hz	EMR4-A300-1-C 290180																																						
			300 – 500 V 50 Hz	EMR4-A500-1-D 290181																																						
EMR4-N... liquid level monitoring relays																																										
	<ul style="list-style-type: none"> Monitors the level of conductive liquids Monitors the ratio of mixtures of conductive liquids Dual-voltage protection against running dry or overflow 	<table border="1"> <tr> <td>5 kΩ – 100 kΩ</td> <td>C</td> <td>MAX</td> <td>MIN</td> <td>15</td> <td>16</td> <td>18</td> </tr> <tr> <td></td> <td colspan="3"></td> <td colspan="3"></td> </tr> </table>	5 kΩ – 100 kΩ	C	MAX	MIN	15	16	18								220 – 240 V AC	EMR4-N100-1-B 221789		1 off																						
5 kΩ – 100 kΩ	C	MAX	MIN	15	16	18																																				
	<ul style="list-style-type: none"> Monitors the level of conductive liquids Monitors the ratio of mixtures of conductive liquids Selectable On-delay or Off-delay between 0.5 – 10 s 	<table border="1"> <tr> <td>250 Ω – 500 kΩ</td> <td>C</td> <td>MAX</td> <td>MIN</td> <td>15</td> <td>25</td> <td></td> </tr> <tr> <td>250 Ω – 500 kΩ</td> <td>C</td> <td>MAX</td> <td>MIN</td> <td>15</td> <td>25</td> <td></td> </tr> <tr> <td></td> <td>16</td> <td>18</td> <td>26</td> <td>28</td> <td></td> <td></td> </tr> </table>	250 Ω – 500 kΩ	C	MAX	MIN	15	25		250 Ω – 500 kΩ	C	MAX	MIN	15	25			16	18	26	28			220 – 240 V AC	EMR4-N500-2-B 221790																	
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