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Dimensions

EMR measuring and monitoring relays 22

Our product range of measurement and monitoring relays has been partially updated.

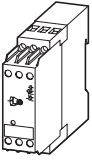
| Old device | Old article no. | New device | New article no. |
|-----------------|-----------------|-----------------|-----------------|
| EMR4-W500-2-C | 221785 | EMR5-W500-1-D | 134221 |
| EMR4-W500-2-D | 221786 | EMR5-W500-1-D | 134221 |
| EMR4-W580-2-D | 221787 | EMR5-AWM720-2 | 134236 |
| EMR4-A400-1 | 221788 | EMR5-A400-1 | 134222 |
| EMR4-AW300-1-C | 290243 | EMR5-AW300-1-C | 134223 |
| EMR4-AW500-1-D | 290244 | EMR5-AW500-1-D | 134224 |
| EMR4-AWN170-1-E | 290245 | EMR5-AWN170-1-E | 134225 |
| EMR4-AWN280-1-F | 290246 | EMR5-AWN280-1-F | 134226 |
| EMR4-W300-1-C | 290182 | EMR5-W300-1-C | 134227 |
| EMR4-W500-1-D | 290183 | EMR5-W500-1-D | 134221 |
| EMR4-W380-1 | 290184 | EMR5-W380-1 | 134228 |
| EMR4-W400-1 | 290185 | EMR5-W400-1 | 134229 |
| EMR4-A300-1-C | 290180 | EMR5-A300-1-C | 134230 |
| EMR4-A500-1-D | 290181 | EMR5-A400-1 | 134222 |

This table provides assistance in replacing EMR4 articles with current EMR5 products.

Electronic relays

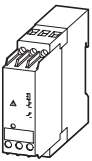
Measuring and monitoring relays

Ordering



Current monitoring relays EMR4-I..., single-phase

| | Current measurement range | Contact sequences | Supply voltage connection | Part no. Article no. | Price See price list | Std. pack |
|---|---|-------------------|---|--|---|-----------|
| | I- / I= A | | | | | |
| Load limit curves → Page 7 Circuit and contact sequence diagrams → Instructional leaflet (AWA) under www.eaton.com | | | | | | |
| <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 | 3 - 30 mA 10 - 100 mA 0.1 - 1 A 0.3 - 1.5 A 1 - 5 A 3 - 15 A 0.3 - 1.5 A 1 - 5 A 3 - 15 A | | 24 - 240 V AC, 50/60 Hz 24 - 240 V DC 24 - 240 V AC, 50/60 Hz 24 - 240 V DC 220 - 240 V AC, 50/60 Hz | EMR4-I1-1-A 106942 EMR4-I15-1-A 106943 EMR4-I15-1-B 106944 | 1 off 1 off 1 off | |

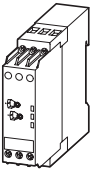
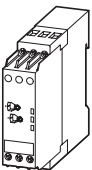


EMR4-F... phase sequence relay

| | Monitoring voltage per phase | Contact sequences | Supply voltage connection | Part no. Article no. | Price See price list | Std. pack |
|---|------------------------------|-------------------|-----------------------------|------------------------------|----------------------|-----------|
| | U_N V AC | | | | | |
| Load limit curves → Page 7 Circuit and contact sequence diagrams → Instructional leaflet (AWA) under www.eaton.com | | | | | | |
| <ul style="list-style-type: none"> Monitors three-phase systems for phase sequence and phase failure ($< 0.6 \times U_e$) Supply voltage connection = monitored voltage | 200 - 500 V AC, 50/60 Hz | | 200 - 500 V AC, 50/60 Hz | EMR4-F500-2 221784 | 1 off | |

EMR5-A... phase imbalance monitoring relays

| | Threshold value | Contact sequences | Supply voltage connection | Part no. Article no. | Price See price list | Std. pack |
|---|--|-------------------|-----------------------------|--------------------------------|----------------------|-----------|
| | | | | | | |
| Load limit curves → Page 7 Circuit and contact sequence diagrams → Instructional leaflet (AWA) under www.eaton.com | | | | | | |
| Power supply from measuring circuit Three-phase monitoring <ul style="list-style-type: none"> Phase sequence Phase failure Asymmetry Imbalance threshold values adjustable 2 - 25 % of mean value of phase voltages On-delay: None = 0 or adjustable from 0.1 to 30 s | Imbalance = 2 - 25 % of phase voltage mean value | | 160 - 300 V AC, 50/60 Hz | EMR5-A300-1-C 134230 | 1 off | |
| Power supply from measuring circuit Three-phase monitoring <ul style="list-style-type: none"> Phase sequence Phase failure Asymmetry Imbalance threshold values adjustable On-delay: None = 0 or adjustable from 0.1 to 30 s | Imbalance = 2 - 25 % of phase voltage mean value | | 300 - 500 V AC, 50/60 Hz | EMR5-A400-1 134222 | 1 off | |



Notes

Information relevant for export to North America



| | |
|----------------------|---|
| Product Standards | IEC 255-6; UL 508; CSA-22.2 No. 14-05; CE marking |
| UL File No. | E29184 |
| UL CCN | NKCR, NKCR7 |
| CSA File No. | UL report valid |
| CSA Class No. | 3211-03 |
| NA Certification | UL Listed, Certified by UL for use in Canada |
| Degree of Protection | IEC: IP20, UL/CSA Type: - |