

The next generation

With the new EMR6 product line, Eaton's existing range of EMR4 / EMR5 measuring relays is being updated to reflect the latest technology.

The new enclosure design of the EMR6 is based on that of our existing relay portfolio (EMT6 / ETR4). The EMR6 completely replaces the existing product range, consisting of the EMR4 and EMR5 devices.

In addition to replacing the existing series, the launch of nine new relay types with additional functionalities (for monitoring current, voltage and temperature) will expand Eaton's product range to 35 devices.

At a glance

- ✓ Suitable for universal use, thanks to multi-voltage power supplies
- ✓ Reduced machine downtime and early detection of possible failures during operation
- ✓ The universal, multi-functional devices reduce inventory costs and save time during the equipment selection process
- ✓ An expanded product range with additional functionalities
- ✓ Relays for monitoring machine temperatures



The EMR4 / EMR5 series will be fully replaced by the end of February 2019.

Name	Article no.	Will replace	Name	Article no.
EMR6-F500-G-1	184789	1:1 Replacement	EMR4-F500-2	221784
EMR6-I1-A-1	184790	1:1 Replacement	EMR4-I1-1-A	106942
EMR6-I15-A-1	184754	1:1 Replacement	EMR4-I15-1-A	106943
EMR6-I15-B-1	184755	1:1 Replacement	EMR4-I15-1-B	106944
EMR6-N1000-N-1	184756	1:1 Replacement	EMR4-N100-1-B	221789
EMR6-N1000-A-1	184757	Consolidation of two types	EMR4-N500-2-A	221791
			EMR4-N500-2-B	221790
EMR6-N100-N-1	184758	1:1 Replacement	EMR4-N080-1-B	134232
EMR6-PH22	184759	Suitable only for EMR6	EMR4-PH22	221794
EMR6-PH45	184760	Suitable only for EMR6	EMR4-PH45	221795
EMR6-A300-C-1	184761	1:1 Replacement	EMR5-A300-1-C	134230
EMR6-A500-D-1	184762	1:1 Replacement	EMR5-A400-1	134222
EMR6-AW300-C-1	184763	1:1 Replacement	EMR5-AW300-1-C	134223
EMR6-AW500-D-1	184764	1:1 Replacement	EMR5-AW500-1-D	134224
EMR6-AWM580-H-1	184765	1:1 Replacement	EMR5-AWM580-2	134235
EMR6-AWM720-L-1	184766	1:1 Replacement	EMR5-AWM720-2	134236
EMR6-AWM820-J-1	184767	1:1 Replacement	EMR5-AWM820-2	134237
EMR6-AWN170-E-1	184768	1:1 Replacement	EMR5-AWN170-1-E	134225
EMR6-AWN280-K-1	184769	1:1 Replacement	EMR5-AWN280-1	134233
EMR6-AWN280-D-1	184770	1:1 Replacement	EMR5-AWN280-1-F	134226
EMR6-AWN500-D-1	184771	1:1 Replacement	EMR5-AWN500-1	134234
EMR6-R250-A-1	184772	1:1 Replacement	EMR5-R250-1-A	153442
EMR6-R400-A-1	184773	1:1 Replacement	EMR5-R400-1-A	153443
EMR6-R400-A-2	184774	1:1 Replacement	EMR5-R400-2-A	153444
EMR6-RC690	184775	1:1 Replacement	EMR5-RC690	153445
EMR6-W300-C-1	184776	1:1 Replacement	EMR5-W300-1-C	134227
EMR6-W380-L-1	184777	1:1 Replacement	EMR5-W380-1	134228
EMR6-W400-M-1	184778	1:1 Replacement	EMR5-W400-1	134229
EMR6-W500-D-1	184779	1:1 Replacement	EMR5-W500-1-D	134221
Extension of the product range				
EMR6-IM1-A-1	184780	NEW		
EMR6-IM15-A-1	184781	NEW		
EMR6-IF1-A-1	184782	NEW		
EMR6-IF15-A-1	184783	NEW		
EMR6-VM600-A-1	184784	NEW		
EMR6-VF600-A-1	184785	NEW		
EMR6-T50-A-1	184786	NEW		
EMR6-T100-A-1	184787	NEW		
EMR6-T200-A-1	184788	NEW		



Three-phase measuring relays

For the monitoring of...

- Phase imbalances
- Voltage
 - Over-voltage and under-voltage
 - Voltage windows
- Phase failure
- Phase sequences
- Cable breaks

Features:

- Adjustable ON- and OFF-delay
- Power supply via the measuring circuit

Applications:

- Monitoring the operating direction of conveyor belt motors
- Detection of overloads and phase imbalances in voltage-sensitive machines and plants
- Activation of emergency or backup power supplies in case of under-voltage or phase failure
- Monitoring the rated voltage of portable / mobile three-phase loads

Protection of...

- Three-phase motors against phase failure and phase change
- Transformers through the detection of asymmetric loads
- Personnel and equipment during rotation reversal
- Consumer loads against destruction in the case of unstable power supplies
- Motors against destruction in the case of phase imbalance and phase failure

Single-phase measuring relays

For the monitoring of...

- Voltage
 - Over-voltage and under-voltage
 - Voltage windows
- Currents
 - Over-current and under-current
 - Current windows

Features:

- Three or four measurement ranges in one device
- Power supply via the measuring circuit

Applications:

- Measuring the current consumption of motors, e.g. that of pumps, elevators or cranes
- Monitoring of electrical systems, e.g. lighting circuits, heating circuits or charging stations
- Monitoring the supply minimum for emergency lighting systems
- Detection of overloads in DC motors
- Monitoring of screw conveyors, e.g. those used in wastewater treatment plants
- Detection of overload situations in hoisting gear and handling equipment
- Monitoring of locking devices or of impacts on end stops

Protection against...

- Voltage drops in sensitive or essential systems
- Damage to or destruction of individual loads in the case of overload or over-current
- Deviations from standard operating sequences