

POWER FACTOR CORRECTION

FCR - range of fast power factor correction regulators

Power factor regulators FCR06, FCR12 with fast 16-bits microprocessor architecture are the highest quality regulators with best technical features on the market. Thanks to excellent accuracy and measurement speed based on the fast computing operation, regulator offers very precise and fast regulation.

FCR regulators are designed to be used in standard contactor compensation batteries and also in the fast compensation batteries based on semiconductor stages, where FCR regulators can reach really fast regulation up to 17 times per 1 second. Mechanical design of the regulator assures high immunity and reliability in the places with high electromagnetic disturbances.

APFR system is the new technology, developed by BMR, for more precise and effective power factor correction. It is available due to the fact that FCR regulators measure power factor exactly the same way as energy meters. By using APFR system, regulator uses lower number of switching operations to reach targeted power factor and reduces to the zero any overcompensation. Comparing to the standard instantaneous power factor regulation system, APFR optimizes number of switching operations, together with precisely kept requested average power factor.

TYPE	Number of stages	Supply voltage [V]	Measuring voltage [V]	Fast stages	Design	Notice
FCR 05	5 + alarm or 6	230 V	230 V	NO	Panel 96 x 96 mm	Basic model with advanced function for standard applications
FCR 07 DL	5 + alarm or 6	230 V	230 V	NO	5 DIN modules	
FCR 07	7 + alarm or 8	230 V	230 V	NO	Panel 96 x 96 mm	
FCR 07 DL	7 + alarm or 8	230 V	230 V	NO	5 DIN modules	
FCR 06	6	400 V	400 V	YES	Panel 144 x 1 44 mm	Professional model for contactor switching.
FCR 06 V230	6	230 V	100-690 V	YES	Panel 144 x 1 44 mm	Special model for other supply and measuring voltages.
FCR 06 V1 00	6	100 V	100 V	YES	Panel 144 x 1 44 mm	
FCR 06-3x	6	400 V	400 V	YES 1 -3 pcs	Panel 144 x 1 44 mm	Model for fast/contactor switching. Available also for other supply voltages.
FCR 06-6x	6	400 V	400 V	YES 4-6 pcs	Panel 144 x 1 44 mm	
FCR 12	12	400 V	400 V	YES	Panel 144 x 1 44 mm	Professional model for contactor switching.
FCR 12 V230	12	230	100-690 V	YES	Panel 144 x 1 44 mm	Special model for other supply and measuring voltages.
FCR 12 V1 00	12	100 V	100 V	YES	Panel 144 x 1 44 mm	
FCR 12-3x	12	400 V	400 V	YES 1 -3 pcs	Panel 144 x 1 44 mm	Model for fast/contactor switching. Available also for other supply voltages.
FCR 12-6x	12	400 V	400 V	YES 4-6 pcs	Panel 144 x 1 44 mm	
FCR 12-1 2x	12	400 V	400 V	YES 7-1 2 pcs	Panel 144 x 1 44 mm	
FCR 123	12	400 V	400 V	YES	Panel 144 x 1 44 mm	Model for 1 - phase fast compensation of 3-phase syst.

ADVANTAGES OF FCR REGULATORS

- Excellent accuracy of regulation and high control speed 17x/s
- Possibility to combine fast (thyristor) modules and contactors with keeping the thyristor speed
- Perfect solution for complicated application
- APFR (better PF result, lower number of switching operation, longer lifetime of capacitors and contactors)
- User configurable current and voltage inputs
- Easy operation, setting and function control
- Remote monitoring and setting by PC
- Technical support and consultancy for complicated application