



RCSE series power factor rack system

RCSE series power factor racks are designed for direct panel mounting onto vertical supports within floor standing electrical panels

RCSE series rack design incorporates the following:

- Sheet metal mounting frame for easy panel mounting (*capacitors visible without having to remove rack*)
- Electronicon heavy duty “gas filled” cylindrical capacitors (*with integrated discharge resistors*)
- Special capacitor switching contactors 400 VAC coil (*230V on request*)
- Three-phase busbar mounted fuse holder with hinged fuse protection cover
- Suitably rated HRC fuses for each phase of each capacitor bank
- Incorporated busbar, supports and inter-connecting busbar links
- Dimensions:

From front of switchgear to front plate:	150 mm
Behind front mounting plate:	320 mm
Between vertical supports:	486 mm

type	kvar at:		description	dimensions (mm)		
	525V	400V		(H)	(W)	(D)

RCSE series single step racks (525V capacitors) fuse protection

RCSE01505	15	9	single step capacitor rack system	270	555	470
RCSE03005	30	18	single step capacitor rack system	270	555	470
RCSE06005	60	36	single step capacitor rack system	270	555	470

RCDE series double-step racks (525V capacitors) separate fuse protection for each bank

RCDE03025	2 x 15	2 x 9	double step capacitor rack system	270	555	470
RCDE06025	2 x 30	2 x 18	double step capacitor rack system	270	555	470
RCDE12025	2 x 60	2 x 36	double step capacitor rack system	270	555	470
RCDE04535	15 + 30	9 + 18	double step capacitor rack system	270	555	470
RCDE09035	30 + 60	18 + 36	double step capacitor rack system	270	555	470

Power factor systems (automatic) 525V

For applications with varying capacitor requirements. An automatic reactive controller monitors the network and only switches capacitor banks when required, avoiding potential over or under compensation in a network.

FMSE series floor standing systems (165 - 1050 kvar - 525V)

Complete ready-to-install system comprising following:

- Suitably ventilated floor standing enclosure (*thermostatically controlled roof mounted exhaust fan*)
 - Mains isolator, door interlocking (*with early make/late break auxiliary contact*)
 - High end reactive controller DCRG 8 (*with digital display of all important network parameters*)
- Able to monitor all three phase voltage and currents, providing accurate indication of:
- Active, Apparent Power as well as Active, Reactive, Apparent Energy monitoring
 - Current and Voltage Harmonics analysis (*up to 31st harmonic*)
 - Calendar-clock with backup reserve power
 - Event logging: alarms, setup changes, events ect. (*internal memory stores last 250 events*)
 - Internal panel temperature monitoring
 - Expandable with up to 4 expansion modules for:
 - additional steps, analog I/O's, RS323, RS485, Ethernet, GPRS/GSM modem communication

type	kvar at:		steps (kvar) 525V			expands to (kvar)	dimensions (mm)		
	525V	400V	15	30	60		(H)	(W)	(D)

FMSE series floor standing complete power factor systems (525V capacitors)

- Reverse-flow roof mounted exhaust fan (*improved cooling and ventilation of the entire panel*)
- Bottom cable entry (*top entry available on request*)
- RC series racks
 - heavy duty cylindrical capacitors, fusegear and busbars
 - “special” capacitor switching contactors incorporating limiting inductances

FMSE01605	165	99	1	1	2	525	2180	600	630
FMSE02105	210	126		1	3	570	2180	600	630
FMSE02505	255	153	1	2	3	525	2180	600	630
FMSE02805	285	171	1	1	4	525	2180	600	630
FMSE03305	330	198		1	5	570	2180	600	630
FMSE03905	390	234		1	6	570	2180	600	630
FMSE04505	450	270		1	7	570	2180	600	630
FMSE05705	570	342		1	9	—	2180	600	630
FMSE06905*	690	414		1	11	1050	2180	1200	630
FMSE08105*	810	450		1	13	1050	2180	1200	630
FMSE09305*	930	486		1	15	1050	2180	1200	630
FMSE10505*	1050	522		1	17	—	2180	1200	630

* Made up by combining two panels with one controller operating all capacitor banks

Remote monitoring

For remote monitoring and control of all electrical network parameters (*including harmonics*), panel internal temperature, alarms, events and all setup parameters. (*see page F-5 for all comm. options*)