Reactive Energy Management Low Voltage Capacitors VarplusCan SDuty

A safe, reliable and high-performance solution for power factor correction in standard operating conditions.

Operating conditions

- For networks with insignificant non-linear loads: (N_{LL}≤ 10%).
- Standard voltage disturbances.
- Standard operating temperature up to 55°C.
- Normal switching frequency up to 5000 /year.
- Maximum current (including harmonics) is 1.5xl_µ.



Technology

Constructed internally with three single-phase capacitor elements assembled in an optimized design. Each capacitor element is manufactured with metallized polypropylene film as the dielectric having features such as heavy edge metallization and special profiles which enhance the "self-healing" properties.

The active capacitor elements are encapsulated in a specially formulated biodegradable, non-PCB, PUR (soft) resin which ensures thermal stability and heat removal from inside the capacitor.

The unique finger-proof CLAMPTITE termination is fully integrated with discharge resistors and allows suitable access to tightening and ensures cable termination without any loose connections. Once tightened, the design guarantees that the tightening torque is always maintained.

For lower ratings, double fast-on terminals with wires are provided.

Benefits

- Safety:
 - Self-healing.
 - Pressure-sensitive disconnector on all three phases.
 - Discharge resistor.
- · Life expectancy up to 100,000 hours.
- Economic benefits and easy installation due to its compact size and low weight.
- Easy maintenance thanks to its unique finger-proof termination to ensure tightening.
- Also available in single-phase and small power ratings from 1 to 5kvar.



VarplusCan SDuty

Technical specifications

General c	haracteristics			
Standards		IEC 60831-1/-2		
Voltage range		230 to 525 V		
Frequency		50 / 60 Hz		
Power range		1 to 30 kvar		
Losses (dielectric)		< 0.2W/kvar		
Losses (total)		< 0.5W/kvar		
Capacitance tolerance		-5 %, +10 %		
Voltage test	Between terminals	2.15 x U _N (AC), 10 s		
	Between terminal & container	3 kV (AC), 10 s or 3.66 kV (AC), 2 s		
	Impulse voltage	8 kV		
Discharge resistor		Fitted, standard discharge time 60 s Discharge time 180 s on request		
Working o	onditions			
Ambient temperature		-25 / 55 °C (Class D)		
Humidity		95 %		
Altitude		2,000 m above sea level		
Overvoltage		$1.1 \text{ x U}_{\text{N}}$ 8 h in every 24 h		
Overcurrent		Up to 1.5xI _N		
Peak inrush current		200 x I _N		
Switching operations (max.)		Up to 5,000 switching operations per year		
Mean Life expectancy		Up to 100,000 hrs		
Harmonic content		N _{LL} ≤ 10 %		
Installatio	n characteristi	cs		
Mounting position	on	Indoor, upright		
Fastening		Threaded M12 stud at the bottom		
Earthing				
Terminals		CLAMPTITE - three-way terminal with electric shoc protection (finger-proof) & double fast-on terminal in lower kvar		
Safety fea	tures			
Safety		Self-healing + Pressure-sensitive disconnector + Discharge device		
Protection		IP20		
Construct	ion			
Casing		Extruded Aluminium Can		
Dielectric		Metallized polypropylene film with Zn/Al alloy		
Impregnation		Biodegradable, Non-PCB, PUR (soft) resin		

Rated Voltage 440 V							
50 Hz		μF (X3)	Case Code	Reference Number			
Q _N (kvar)	I _N (A)						
5	6.6	27.4	HC	BLRCS050A060B44			
10	13.1	54.8	LC	BLRCS100A120B44			
12.5	16.4	68.5	NC	BLRCS125A150B44			
15	19.7	82.2	NC	BLRCS150A180B44			
20	26.2	110	SC	BLRCS200A240B44			
25	32.8	137	SC	BLRCS250A300B44			
30.3	39.8	166	SC	BLRCS303A364B44			

Rated Voltage 525 V						
50 Hz		μF (X3)	Case Code	Reference Number		
Q _N (kvar)	I _N (A)					
5	5.5	19.2	HC	BLRCS050A060B52		
10.6	11.7	40.8	MC	BLRCS106A127B52		
12.5	13.7	48.1	NC	BLRCS125A150B52		
15.4	16.9	59.3	NC	BLRCS154A185B52		
20	22	77	SC	BLRCS200A240B52		
25	27.5	96.2	SC	BLRCS250A300B52		

** Other rating of voltages are available on request basic. ** Other rating of kVAr are available on request basic.

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