



GCSS5580

STATIC SWITCH FOR POWER FACTOR IMPROVEMENT APPLICATIONS

IP 20 construction
Compact design
High reliability
Soft switching
High working frequency

LINE VOLTAGE UP TO 525V
LOAD POWER UP TO 50kvar

The GCSS5580 is an anti-parallel-SCR-based static switch especially designed for power factor improvement applications. Its main features are the soft turn-on which allows the insertion of the capacitor bank without voltage or current transients and the capability to work at high frequency allowing a better control on the power factor. The design is extremely compact and light weight.

MAXIMUM RATINGS

Characteristic		Conditions	Value
Q_{MAX}	Maximum load power	f=50Hz; 400 VAC Line	50 kvar
I_{MAX}	Maximum load current		76 A _{RMS}
V_{INS}	Insulation voltage	1 min @ 25°C	2500 V _{DC}
P_L	Power losses		150 W

CONTROL CHARACTERISTICS

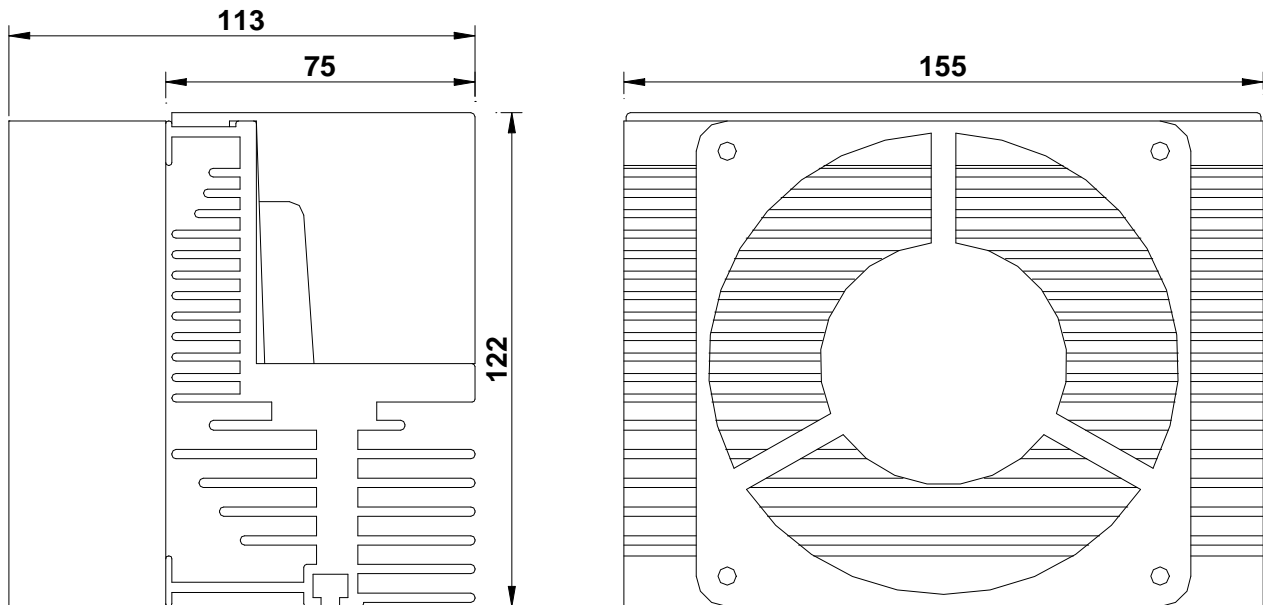
V_C	Control voltage		5-24 V _{DC}
I_C	Control current		2 mA

SUPPLY CHARACTERISTICS

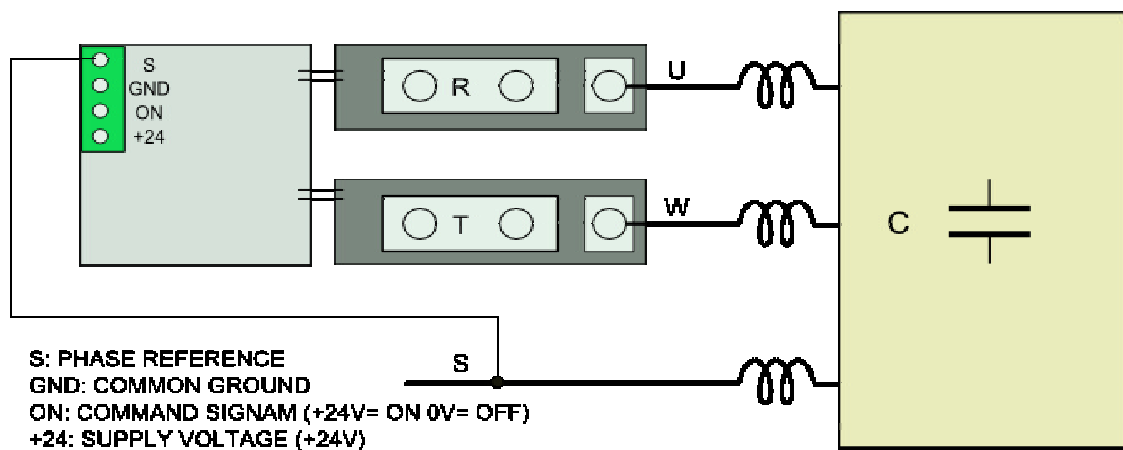
V_{SC}	Control circuit supply		24 V _{DC} - 10 mA
V_{FS}	Fan supply		230 V _{DC} - 90 mA

MECHANICAL AND THERMAL CHARACTERISTICS

W	Width		125 mm
D	Depth		134 mm
H	Height		195 mm
M	Mass		3 kg
T _{a max}	Max amb. op. Temp.		45 °C
T _{stg}	Storage temperature		60 °C



All dimensions are in mm



In the interest of product improvement Green Power Solutions reserves the right to change any specification given in this data sheet without notice.