

SRS6 EP Controller



Application	control of solar and heating systems
Purpose	It controls 5 outputs (3 mech. relays, 2 optional either 0-1V or PWM) and features 6 inputs for temper. sensors
Code	13 168

Electric data	
Power voltage	100 - 240 AVC
Power frequency	50 - 60 Hz
Power input	0.5 - 2.5 VA
Internal fuse	2 A/250 V, slow-blow
IP rating	IP40
Protection class	II
Overtoltage category	II by EN 60664-1
Pollution degree	II by IEC 60664-1

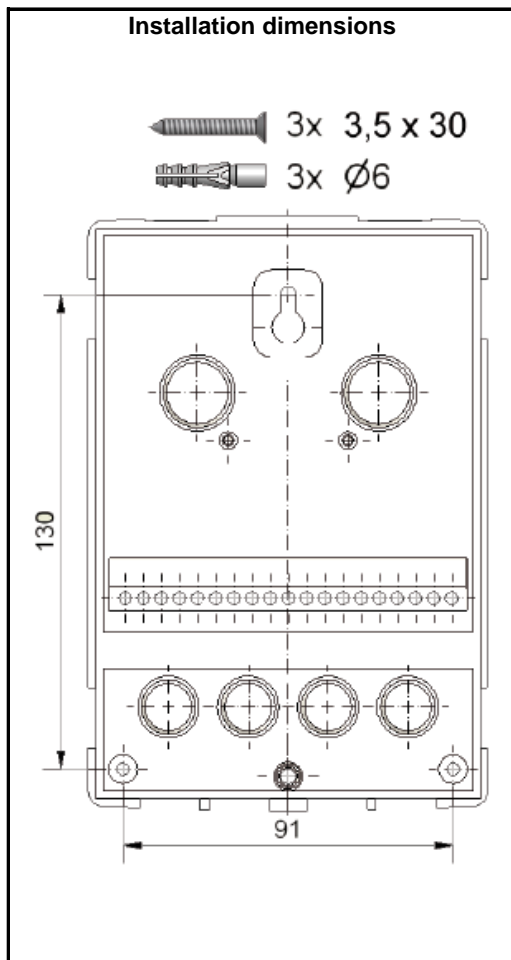
Inputs and outputs	
Mechanical relay	460 VA for AC1/460 W for AC3
0-10 V	load 10 kΩ, tolerance 10%
PWM	voltage 10 V, frequency 1 kHz
Pt1000	temperature range -40 to 300 °C
VFS/RFS	adjustable range, 1-200 l/min / 0-10 bar
Sítové připojení	CAN Bus

Number of inputs and outputs	
Mechanical relay	3 x (R1, R2, R3)
0 -10 V or PWM	2 x (V1 and V2)
Pt1000	6 x (S1 to S4)

Permissible cable lengths for sensors and outputs	
Mechanical relay	< 10 m
0-10 V/PWM	< 3 m
Pt1000 (outdoor sens.)	< 30 m
Pt1000 (other sensors)	< 10 m
VFS/RFS, CAN Bus	< 3 m

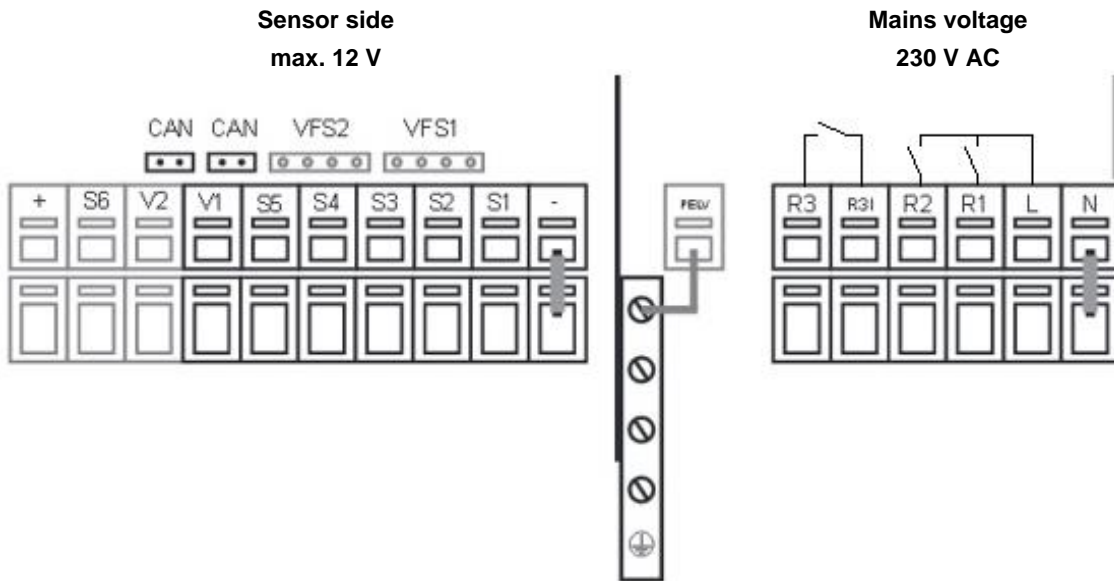
Permissible working and ambient conditions	
VFS/RFS	0 to 100 (-25 to 120 in short term) °C
Ambient temper. - operation	0 to 40 °C
Ambient temper. - stock	0 to 60 °C
Air humidity - operation	max. 85 % at 25 °C
Air humidity - stock	no condensation permitted

Other data	
Housing material	ABS (two-part)
Installation	wall mount
Overall dimensions	163 x 110 x 52 mm
Display	fully graphic, 128 x 128
Preset connections	42 hydraulic variants for solar and heating systems



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Terminal block wiring diagram



Board connection:

CAN1
CAN2
VFS2
VFS1

Connection for:

CAN Bus connection
CAN Bus connection
VFS/RFS connection
VFS/RFS connection

Terminal:

R3
R3I
R2
R1
L
N

Connection for:

potential-free switching contact
potential-free switching contact
live
live
mains voltage - live
mains voltage - neutral

Terminal:

+
S6
V1
V2
S5
S4
S3
S2
S1
-

Connection for:

power supply 12 V
sensor 6
0-10 V/PWM
0-10 V/PWM
sensor 5
sensor 4
sensor 3
sensor 2
sensor 1
ground

Neutral is wired to the lower (blue) terminal.

Protective PE lead shall be wired to PE terminal board!

Sensor grounds are wired to the lower (grey) terminals.

Correlation between temperature and resistance for Pt 1000 sensors

°C	0	10	20	30	40	50	60	70	80	90	100
Ω	1000	1039	1077	1116	1155	1194	1232	1270	1308	1347	1385