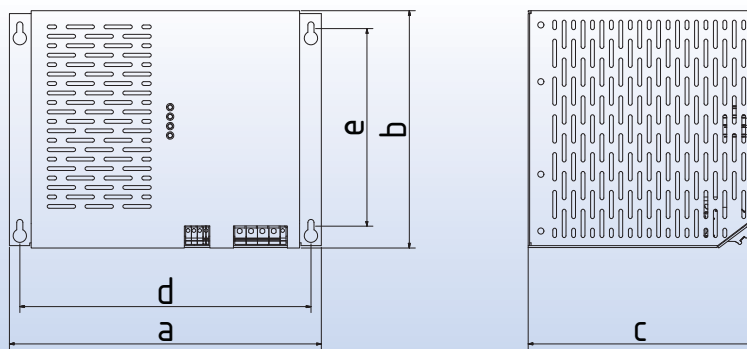




Three-phase safety transformers according to VDE 0570 part 2-6, EN 61558-2-6



regulated



General information:

The switched-mode power supplies in the RSNT 20–60 G series are equipped with a three-phase isolation transformer and a load-side (downstream) switching controller. The interference level is significantly below the allowable interference limits specified in VDE 0875 part 11, EN 55011 limit curve B.

The patent-protected switching concept developed in-house achieves an extremely low interference level. No filters or shields are necessary.

The switched-mode power supplies have overload and short-circuit protection and can be connected in parallel without limitations. Through internal electronic fusing the devices are always operated in the safe operating area (SOA protection).

Via two light diodes the current operating status is displayed: green indicates constant voltage mode and yellow indicates constant current mode.

Design

Stable sheet metal steel enclosure with integrated mounting holes for device installation and assembly in dry rooms,

Pri., sec. connection and PE via terminal blocks with screw connection. The terminals are protected against back of hand and finger contact according to accident prevention regulations (BGV A3).

Secondary voltage: max. 0-60VDC.

Devices can be freely combined as masters and slaves ($V_{max} = 200VDC$)

Technical data for type	RSNT 20G	RSNT 30G	RSNT 40G	RSNT 50G	RSNT 60G
Grid input voltage	3AC 400V				
Grid input voltage range	+15% to −15%				
Frequency	50Hz / 60Hz				
Input current	1.3A	2.0A	2.6A	3.2A	3.7A
Output voltage	24VDC, stabilised, duplicated, externally adjustable in range 0-30VDC, real low drop				
Adjustable output current adjustable	0...20A	0...30A	0...40A	0...50A	0...60A
Ripple	< 30m Veff.				
Short-circuit protection	Constant current mode				
Dynamic load control	< 100mVss / 500us.				
Stability under constant conditions	< 0,05%				
Line regulation	< 0,05%				
Overtemperature protection	thermal switch-off if device temperature > 85°C				
Ambient temperature	-10... +40°C				
Installation position	vertical installation				
Cooling	convection			forced cooling	
Connection type	screw connection, protected against finger contact according to accident prevention regulations (BGV A3)				
Connection data	fine-strand max. 4/10mm²			fine-strand max. 4/16mm²	
Installation	enclosure base keyhole mounting brackets				
Protection class	IP 20				
Protection class	I				
Dimensions approx. in mm (a x b x c)	250 x 202 x 200		300 x 220 x 222	330 x 250 x 237	
Mounting hole pattern dimensions in approx. mm (d x e)	228 x 161		278 x 179	308 x 209	
Item number:	0229-00000020	0229-00000030	0229-00000040	0229-00000050	0229-00000060
Copper insert weight in kg	3,4	3,8	5,8	8,5	8,5
Total weight in kg	13,0	21,0	22,5	25,0	26,5
Options					
Remote control 0-10V	for V/ I				
Remote control 4mA-20mA	for V/ I				
Switch-off input	yes, for shutdown connect terminal to 0V				
Potential-free group fault signal contact	for errors (overtemperature, undervoltage and overload)				