

# 1 Overview insulation monitoring devices ISOMETER®



Page		12	15	17	20	23
Criteria	Control circuits	■	■	■		
	Auxiliary circuits	■	■	■		
	Main circuits				■	■
Voltage system	3(N)AC				■	■
	AC	■	■	■	■	■
	AC/DC		■	■		
	DC		■	■		
Nominal system voltage $U_n$		AC 0...300 V	AC 19.2...265 V, DC 19.2...308 V	AC/DC 0...300 V	AC, 3(N)AC 0...793 V	AC, 3(N)AC 0...793 V
System leakage capacitance $C_e$ $\mu$ F		$\leq 20$	$\leq 10$	$\leq 20$	$\leq 20$	$\leq 20$
Response value $R_{an}$ k $\Omega$		1...200	10...200	1...200	1...200	10...100 35...500
Special applications						
Installation	DIN rail	■	■	■	■	■
	Screw mounting	■	■	■	■	■
	Panel mounting/ wall fastening					

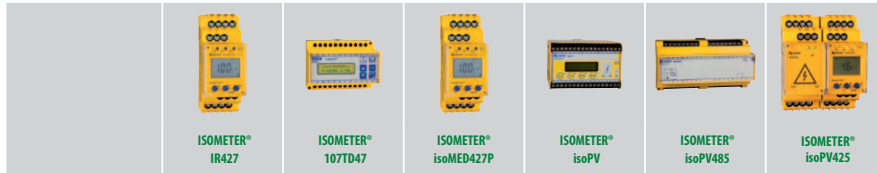
		Type	P.	Suitable system components		
Coupling devices	AGH150W-4	212				
	AGH204S-4	213		■		■
	AGH520S	214		■		■
Measuring instruments	7204-1421	257		■		■
	9604-1421	257		■		■
	9620-1421	257				
Measuring current transformers	STW2	-				
Power supply unit	AN450	255				
	AN450-133	255				



Page		26	30	33	88	37
Criteria	Control circuits				■	
	Auxiliary circuits					
	Main circuits	■	■	■	■	■
Voltage system	3(N)AC	■	■	■	■	■
	AC	■	■	■	■	■
	AC/DC	■	■	■	■	■
	DC	■	■	■	■	■
Nominal system voltage $U_n$		AC, 3(N)AC 0...793 V DC 0...650 V	AC, 3(N)AC/DC 0...7.2 kV	AC, 3(N)AC 0...793 V DC 0...650 V	dependent on type	AC, 3(N)AC 0...480 V DC 0...480 V
System leakage capacitance $C_e$ $\mu$ F		$\leq 500$	$\leq 5$	$\leq 500$	$\leq 500$ (150)	$\leq 60$
Response value $R_{an}$ k $\Omega$		1...10000	100...10000	1...10000	1...10000	2...1000
Special applications			AC, DC or AC/DC medium voltage systems		Equipment for insulation fault location	
Installation	DIN rail	■	■	■	■	■
	Screw mounting	■	■	■	■	■
	Panel mounting/ wall fastening					

		Suitable system components		
Coupling devices		■		■
		■		■
		■		■
Measuring instruments		■		■
		■	■	■
		■		■
Measuring current transformers				■
Power supply unit				

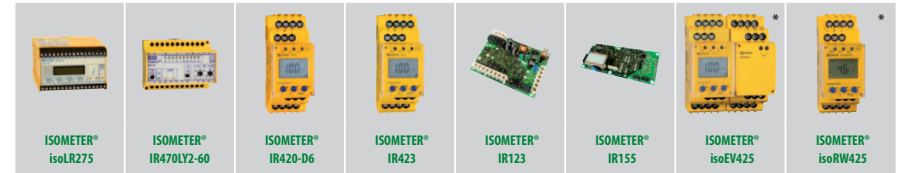
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Page		40	44	92	48	53	56
Criteria	Control circuits			■			
	Auxiliary circuits						
	Main circuits	■	■	■	■	■	■
Voltage system	3(N)AC		■		■		
	AC	■	■	■	■		■
	AC/DC				■	■	■
	DC				■	■	■
Nominal system voltage $U_n$		AC 70...264 V	AC 230 V AC 127 V	AC 70...264 V	via AGH-PV 3(N)AC 0...793 V DC 0...1100 V	AC 0...800 V DC 0...1000 V	DC 0...1100 V, AC 0...793 V, 15...460 Hz
System leakage capacitance $C_e$ $\mu$ F		$\leq 5$	$\leq 5$	$\leq 5$	$\leq 2000$	$\leq 100$	$\leq 350$
Response value $R_{an}$ k $\Omega$		50...500	50...500	50...500 k $\Omega$	0.2...100	10	1...990
Special applications		Medical locations	Medical locations	Equipment for insulation fault location	Photovoltaic	Photovoltaic	Photovoltaic
Installation	DIN rail	■	■	■	■	■	■
	Screw mounting	■	■	■	■	■	■
	Panel mounting/ wall fastening						

		Type	P.	Suitable system components			
Coupling devices	AGH150W-4	212					
	AGH204S-4	213					
	AGH520S	214					
Measuring instruments	7204-1421	257					
	9604-1421	257					
	9620-1421	257			■		
Measuring current transformers	STW2	-	■	■	■		
	AN450	255		■			
Power supply unit	AN450-133	255		■			

\* Delivery time on request



59	62	65	68	71	73	77	81
■	■	■	■	■	■	■	■
■	■	■	■				■
■	■	■	■	■			■
■					■	■	
via AGH-LR 3(N)AC 0...793 V DC 0...1100 V	AC 3(N)AC 0...793 V	Offline	AC 0...300 V	AC 100...300 V	DC 0...1000 V	DC 0...1100 V AC 0...793 V, 15...460 Hz	AC/DC 0...400 V
$\leq 500$	$\leq 10$	$\leq 10$	$\leq 5$	$\leq 1$	$\leq 1$	$\leq 5$	$\leq 300$
0.2...100	10...1000 500...5000	100...10000	1...200	46/23	100...10000	10...990	1...990
Installations with a low level of insulation	Disconnected loads	Disconnected loads	Mobile generators	Mobile generators	Electric mobility	Electric mobility	Railway
■	■	■	■			■	■
■	■	■	■	■	■	■	■

Suitable system components							
	■	■					
	■						
	■						