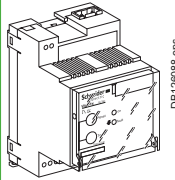
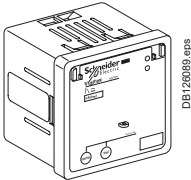


Residual-current protection relays

RH10 with local manual fault reset

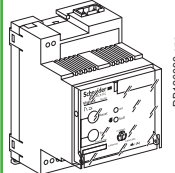
System to be protected		LV ≤ 1000 V		
			 DIN-rail mount.	 Front-panel mount.
Sensitivity 0.03 A - instantaneous				
Power supply	12 to 24 V AC - 12 to 48 V DC	50/60 Hz	56100	56200
	110 to 130 V AC	50/60 Hz	56120	56220
	220 to 240 V AC	50/60 Hz	56130	56230
	380 to 415 V AC	50/60 Hz	56140	56240
	440 to 525 V AC	50/60 Hz	56150	
Sensitivity 0.05 A - instantaneous				
Power supply	110 to 130 V AC	50/60 Hz	56121	
	220 to 240 V AC	50/60 Hz	56131	
Sensitivity 0.1 A - instantaneous				
Power supply	12 to 24 V AC - 12 to 48 V DC	50/60 Hz	56102	56202
	110 to 130 V AC	50/60 Hz	56122	56222
	220 to 240 V AC	50/60 Hz	56132	56232
	380 to 415 V AC	50/60 Hz	56142	56242
Sensitivity 0.25 A - instantaneous				
Power supply	220 to 240 V AC	50/60 Hz	56134	56234
Sensitivity 0.3 A - instantaneous				
Power supply	12 to 24 V AC - 12 to 48 V DC	50/60 Hz	56105	56205
	110 to 130 V AC	50/60 Hz	56125	56225
	220 to 240 V AC	50/60 Hz	56135	56235
	380 to 415 V AC	50/60 Hz	56145	56245
Sensitivity 0.5 A - instantaneous				
Power supply	12 to 24 V AC - 12 to 48 V DC	50/60 Hz	56106	56206
	110 to 130 V AC	50/60 Hz	56126	56226
	220 to 240 V AC	50/60 Hz	56136	56236
	380 to 415 V AC	50/60 Hz	56146	56246
	440 to 525 V AC	50/60 Hz	56156	
Sensitivity 1 A - instantaneous				
Power supply	12 to 24 V AC - 12 to 48 V DC	50/60 Hz	56107	56207
	110 to 130 V AC	50/60 Hz	56127	56227
	220 to 240 V AC	50/60 Hz	56137	56237
	380 to 415 V AC	50/60 Hz	56147	56247
	440 to 525 V AC	50/60 Hz	56157	

RH21 with local manual fault reset

System to be protected

LV ≤ 1000 V

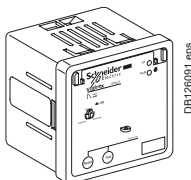
RH21M



DB126090.eps

DIN-rail mount.

RH21P



DB126091.eps

Front-panel mount.

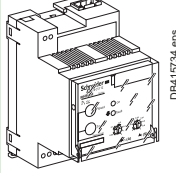
Sensitivity 0.03 A - instantaneous

Sensitivity 0.3 A - instantaneous or with 0.06 s time delay

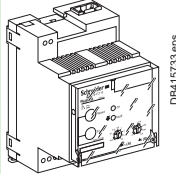
Power supply	12 to 24 V AC - 12 to 48 V DC	50/60 Hz	56160	56260
	110 to 130 V AC	50/60 Hz	56162	56262
	220 to 240 V AC	50/60 Hz	56163	56263
	380 to 415 V AC	50/60 Hz	56164	56264
	440 to 525 V AC	50/60 Hz	56165	56265

Residual-current protection relays

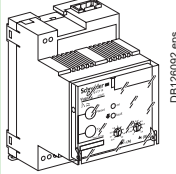
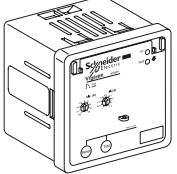
RH68 with local manual fault reset

System to be protected	LV ≤ 1000 V	RH68M	
			
		DIN-rail mount.	
Sensitivity 0.03 A to 30 A - instantaneous or with 0 to 4.5 s time delay			
Power supply	220 to 240 V AC	50/60 Hz	56168

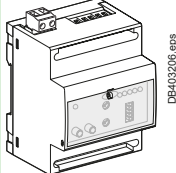
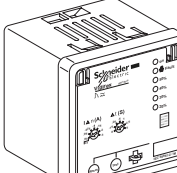
RH86 with local manual fault reset

System to be protected	LV ≤ 1000 V	RH86M	RH86P
			
		DIN-rail mount.	Front-panel mount.
Sensitivity 0.03 A to 30 A - instantaneous or with 0 to 4.5 s time delay			
Power supply	220 to 240 V AC	50/60 Hz	56500
			56502

RH99 with local manual fault reset

System to be protected	LV ≤ 1000 V	RH99M	RH99P
			
		DIN-rail mount.	Front-panel mount.
Sensitivity 0.03 A to 30 A - instantaneous or with 0 to 4.5 s time delay			
Power supply	12 to 24 V AC - 12 to 48 V DC	50/60 Hz	56170
	110 to 130 V AC	50/60 Hz	56172
	220 to 240 V AC	50/60 Hz	56173
	380 to 415 V AC	50/60 Hz	56174
	440 to 525 V AC	50/60 Hz	56175
			56270
			56272
			56273
			56274
			56275

RH197 with local manual or automatic fault reset^[1]

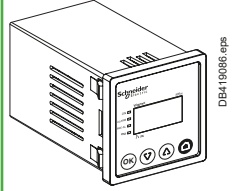
System to be protected	LV ≤ 1000 V	RH197M	RH197P
			
		DIN-rail mount.	Front-panel mount.
Alarm: 50 % of fault threshold - instantaneous			
Fault: sensitivity 0.03 A to 30 A - instantaneous or with 0 to 4.5 s time delay			
Single-phase power supply	48 V AC - 24 to 130 V DC	50/60 Hz	56515
	110 to 130 V AC ^[2]	50/60 Hz	56516
	220 to 240 V AC ^[2]	50/60 Hz	56517
	380 to 415 V AC ^[2]	50/60 Hz	56518
			56505
			56506
			56507
			56508
Alarm: 100 % of fault threshold - instantaneous			
Fault: sensitivity 0.03 A to 30 A - instantaneous or with 0 to 4.5 s time delay			
Single-phase power supply	48 V AC - 24 to 130 V DC	50/60 Hz	56515
	110 to 130 V AC ^[2]	50/60 Hz	56516
	220 to 240 V AC ^[2]	50/60 Hz	56517
	380 to 415 V AC ^[2]	50/60 Hz	56518
			56510
			56511
			56512
			56513

^[1] Selected via a switch.^[2] RH197M: 110 V, 230 V, 400 V.

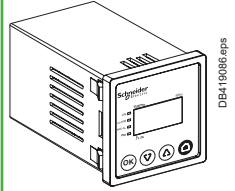
Residual-current protection relays or monitoring relays

Residual-current protection relays

RHUs with local manual fault reset

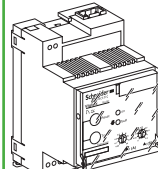
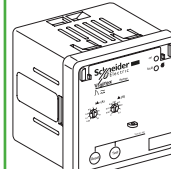
System to be protected	LV ≤ 1000 V	RHUs	
Alarm: sensitivity 0.015 A to 30 A - instantaneous or with 0 to 4.5 s time delay Fault: sensitivity 0.03 A to 30 A - instantaneous or with 0 to 4.5 s time delay			
Single-phase power supply	110 to 130 V AC	50/60 Hz	LV481000
	220 to 240 V AC	50/60 Hz	LV481001

RHU with local manual fault reset (communicating)

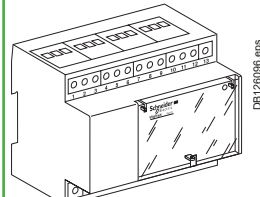
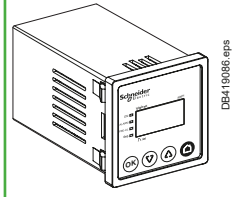
System to be protected	LV ≤ 1000 V	RHU	
Alarm: sensitivity 0.015 A to 30 A - instantaneous or with 0 to 4.5 s time delay Fault: sensitivity 0.03 A to 30 A - instantaneous or with 0 to 4.5 s time delay			
Single-phase power supply	110 to 130 V AC	50/60 Hz	LV481002
	220 to 240 V AC	50/60 Hz	LV481003

Monitoring relays

RH99 with automatic fault reset

System to be protected	LV ≤ 1000 V	 DB 126092 eps DIN-rail mount.	 DB 126093 eps Front-panel mount.	
Sensitivity 0.03 A - instantaneous				
Sensitivity 0.1 A to 30 A - instantaneous or with 0 s to 4.5 s time delay				
Power supply	12 to 24 V AC - 12 to 48 V DC	50/60 Hz	56190	56290
	110 to 130 V AC	50/60 Hz	56192	56292
	220 to 240 V AC	50/60 Hz	56193	56293
	380 to 415 V AC	50/60 Hz	56194	56294
	440 to 525 V AC	50/60 Hz	56195	

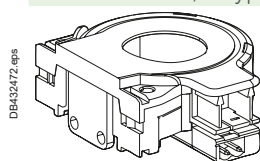
RMH and multiplexer RM12T (communicating)

System to be monitored	LV ≤ 1000 V	RM12T  DIN-rail mount.	RMH  Front-panel mount.	
Pre-Alarm: sensitivity 0.015 A to 30 A - instantaneous or with 0 to 5 s time delay Alarm: sensitivity 0.03 A to 30 A - instantaneous or with 0 to 5 s time delay				
Single-phase power supply	220 to 240 V AC	50/60 Hz	28566	LV481004

Toroids and rectangular sensors, communication module, accessories

Sensors

Closed toroids, A type



DB432472.eps

Type	Ie (A) rated operational current	Inside diameter (mm)	
TA30	65	30	50437
PA50	85	50	50438
IA80	160	80	50439
MA120	250	120	50440
SA200	400	200	50441
GA300	630	300	50442

Accessory for closed toroids

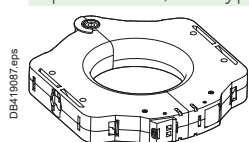
Magnetic ring



DB107032.eps

For TA30 toroid	56055
For PA50 toroid	56056
For IA80 toroid	56057
For MA120 toroid	56058

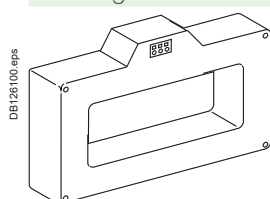
Split toroids, OA-type



DB419087.eps

Type	Ie (A) rated operational current	Inside diameter (mm)	
TOA80	160	80	50420
TOA120	250	120	50421

Rectangular sensors



DB126100.eps

Inside dimensions (mm)	Ie (A)		
L1	1600	280 x 115	56053
L2	3200	470 x 160	56054

Communication module



DB421498.eps

Cable for Modbus serial link 1 x RJ45 and free wires at other end - Cable 3 m	W3A8306D30
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LV434211.ai

Connector Modbus adaptor	LV434211
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Accessories



DB115620.eps

1 screws bag for RH●●M and P	56060
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Note: sensor-relay link: twisted cable not supplied (see "Installation and connection" chapter).