










All Vigirex products are type A devices, also covering the requirements of type AC devices.

			Protection relays ⁽¹⁾	
			RH10	RH21
				
				
Functions				
Protection			■	■
Local indications			■	■
Remote indications (hard-wired)			-	-
Remote indications (via communication)			-	-
Display of measurements			-	-
Wiring				
Optimum continuity of service			■	■
Optimum safety (failsafe)			■	■
Mounting				
DIN rail			■	■
Front-panel mount			■	■
Rated operational voltage				
1 DC voltage range from 12 to 48 V			■	■
6 AC voltage ranges from 12 to 525 V			■	■
4 AC voltage ranges from 48 to 415 V			-	-
Thresholds				
Fault (I Δ n)			1 fixed instantaneous threshold choose from 0.03 A to 1 A	2 user-selectable thresholds 0.03 A or 0.3 A
Alarm			-	-
Pre-alarm			-	-
Time delays				
Fault			Instantaneous	Instantaneous for I Δ n = 0.03 A 1 user-selectable time delay instantaneous or 0.06 s for I Δ n = 0.3 A
Alarm			-	-
Pre-alarm			-	-
Display and indications				
Voltage presence (LED and/or relay) ⁽⁵⁾			■	■
Threshold overrun	fault (LED)		■	■
	alarm (LED and relay)		-	-
	pre-alarm (LED and relay)		-	-
Leakage current and settings (digital)			-	-
Test with or without actuation of output contacts				
Local			■	■
Remote (hard-wired)			■	■
Remote (hard-wired for several relays)			■	■
Remote (via communication)			-	-
Communication				
Suitable for supervision (internal bus)			-	-
Characteristics				
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Sensors				
Merlin Gerin A, O, E toroids ⁽⁶⁾			■	■
Merlin Gerin rectangular sensors			■	■

(1) Relay with output contact requiring local, manual reset after a fault.
 (2) Relay with output contact that automatically resets after fault clearance.
 (3) Mandatory with an RMH (multiplexing for the 12 toroids).
 (4) Mandatory with an RM12T (multiplexing for the 12 toroids).
 (5) Depending on the type of wiring (optimum continuity of service or optimum safety).
 (6) See characteristics page 433E2400.fm/40.

RH99		RHUs and RHU		Monitoring relays (2)		RH99		RMH	
									
■	■	■	■	-	■	-	■	-	-
-	-	■	■	■	■	-	■	-	■
-	-	■ except RHUs	■	-	■	-	■	-	■
-	-	■	■	-	■	-	■	-	■ 12 measurement channels (4)
■	■	■	■	-	■	-	■	-	-
■	■	-	■	■	■	-	■	-	220 to 240 V AC
■	■	-	-	■	■	-	■	-	-
-	-	■	-	-	■	-	■	-	-
9 user-selectable thresholds from 0.03 A to 30 A	1 adjustable threshold from 0.03 A to 30 A	-	1 adjustable threshold from 0.03 A to 30 A	-	9 user-selectable thresholds from 0.03 A to 30 A	-	1 adjustable threshold/channel from 0.03 A to 30 A	-	1 adjustable threshold/channel from 0.03 A to 30 A
-	1 adjustable threshold from 0.015 A to 30 A	-	1 adjustable threshold from 0.015 A to 30 A	-	-	-	1 adjustable threshold/channel from 0.015 A to 30 A	-	1 adjustable threshold/channel from 0.015 A to 30 A
-	-	-	-	-	-	-	-	-	-
9 user-selectable time delays instantaneous to 4.5 s	1 adjustable time delay instantaneous to 5 s	-	1 adjustable time delay instantaneous to 5 s	-	9 user-selectable time delays instantaneous to 4.5 s	-	1 adjustable time delay/channel instantaneous to 5 s	-	1 adjustable time delay/channel instantaneous to 5 s
-	1 adjustable time delay instantaneous to 5 s	-	1 adjustable time delay instantaneous to 5 s	-	9 user-selectable time delays instantaneous to 4.5 s	-	1 adjustable time delay/channel instantaneous to 5 s	-	1 adjustable time delay/channel instantaneous to 5 s
-	-	-	-	-	-	-	1 adjustable time delay/channel instantaneous to 5 s	-	1 adjustable time delay/channel instantaneous to 5 s
■	■	■	■	■	■	■	■	■	■
■	■	■	■	-	■	-	■	-	■
-	■	■	■	■	■	■	■	■	■
-	-	-	-	-	-	-	■	-	■
-	■	■	■	-	■	-	■	-	■
■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■
-	■ except RHUs	-	■ except RHUs	-	■	-	■	-	■
-	■ except RHUs	-	■ except RHUs	-	■	-	■	-	■
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■	■	■	■	■	■	■	■	■	■
■	-	■	-	■	-	■	-	■	-