

ELECTRIFICATION SMART POWER, MAY 2019

Product life cycle announcement

ELIS Timers & Protective Relays: NMV, DINIL*, SON*, WKA*, and R* ranges

Subject: ELIS Timers & Protective Relays life cycle announcement

Introduction:

In accordance with the ABB global strategy, the ELIS Timers & Protective Relays: NMV, DINIL*, SON*, WKA*, and R* types are in the limited phase of their life cycle effective immediately. These products can be replaced with ABB's electronic timers, CT range, which are available through authorized ABB distributors.

Products:

Affected Legacy Products:

- ELIS Series NMV, DINIL*, SON*, WKA*, and R* Timers

(See Appendix A for detailed catalog numbers)

Replacement products:

ABB Monitoring Relays & Timers; CT-* and CM-* ranges



Life Cycle Changes:

Limited	Obsolete
Current - 06/31/2019	07/01/2019

Life Cycle Definitions:**CLASSIC PHASE:**

- Product is still available, but not extensively promoted (a substitution product will be identified with cross-reference in most cases)
- No further enhancements or developments
- Customers can take advantages of the complete range of ABB life cycle services, spare parts and maintenance materials
- End users are encouraged to evolve to replacement product

LIMITED PHASE:

- Product is no longer actively promoted
- Service support is ensured, including retrofit kits, spare parts and accessories.
- Product is no longer manufactured or limited production might be available. There are reductions in stock levels and the number of SKUs that are stocked.
- Life extension solutions may be available under a Customer Support Agreement, which provide "Active Phase"-like support from ABB Service team

OBSOLETE PHASE:

- Product is withdrawn from sales
- No longer manufactured as a complete product
- Retrofit kits, where applicable, are available for most applications
- Spare parts availability may diminish over time with decrease in production volumes

Inventory:

Inventory levels will be actively managed to reduce and eliminate the stocking levels and stocked materials.

Pricing:

During limited and obsolete phase, any exception to price increase must be approved by Pricing Manager and Product Marketing Manager (PMM).

SPA's will no longer be valid/offered for these products after July 1st, 2019.

Product Returns:

During the ABB life cycle phases, the ABB return policy will be enforced. Any requested returns after product obsolescence will only be accepted with approval of DSM and PMD for a grace period of 3 months from date of obsolescence.

Transition tools:

eConfig tool

<https://xe-v-lscfe01p.xe.abb.com/global/#/>

<https://new.abb.com/low-voltage/products/electronicrelays/electronic-timers>

<https://new.abb.com/low-voltage/products/electronicrelays/monitors>

Time Relays catalog

<https://search.abb.com/library/Download.aspx?DocumentID=2CDC111163C0201&LanguageCode=en&DocumentPartId=PDF&Action=Launch>

Measuring & Monitoring Relays catalog

https://search.abb.com/library/Download.aspx?DocumentID=2CDC110004C0210_02&LanguageCode=en&DocumentPartId=&Action=Launch

Time and Measuring/Monitoring Relays document library

<https://library.abb.com/en/results>

BU EPPC Technical Support (for cross-reference support)

eppc.support@us.abb.com

CAD drawings

<https://abb-control-products.partcommunity.com/3d-cad-models/?cwid=3665>

Appendix:

Appendix A – Affected Legacy Products



Affected Products.xlsx



Description	Supply voltage	Time range	Contacts	Ref no	Ordering code
Delayed-ON relay	direct 24-240VAC/DC	0.06 sec.-6000 min.	1 changeover	124900	NMTCV
	with transformer 110/125V	0.06 sec.-6000 min.	2 changeovers	124901	NMTCV2
	with transformer 200/240V		1 changeover	124902	NMTCVTAJ
	with transformer 380/440V			124903	NMTCVTAM
Delayed ON-relay with instantaneous contact	direct 24-240VAC/DC	0.06 sec.-6000 min.	1 contact timed+, 1 contact inst.	124905	NMTCIV
Delayed-ON relay with thyristor output timer	direct 24-240VAC/DC	0.2-500 sec.	thyristor output	124906	NMTCSV
Impulse ON timer	direct 24-240VAC/DC	0.06 sec.-6000 min.	1 changeover	124907	NMICV
Star-delta starter relay	direct 24-240VAC/DC	1-60 sec.	2 timed	124908	NMETV
	with transformer 110/125V			124909	NMETVTAJ
	with transformer 200/240V			124910	NMETVTAM
	with transformer 380/440V			124911	NMETVTAU
Delayed OFF timer	direct 24-240VAC/DC	0.5-6 sec.	1 changeover	124912	NMRDV-6
		5-60 sec.		124913	NMRDV-60
		50-600 sec.		124914	NMRDV-600
		0.5-6 sec.	2 changeovers	124915	NMRDV2-6
		5-60 sec.		124916	NMRDV2-60
		50-600 sec.		124917	NMRDV2-600
	with transformer 110/125V	0.5-6 sec.	1 changeover	124918	NMRDVT-6AJ
		5-60 sec.		124921	NMRDVT-60AJ
		50-600 sec.		124924	NMRDVT-600AJ
	with transformer 200/240V	0.5-6 sec.	1 changeover	124919	NMRDVT-6AM
		5-60 sec.		124922	NMRDVT-60AM
		50-600 sec.		124925	NMRDVT-600AM
with transformer 380/440V	0.5-6 sec.	1 changeover	124920	NMRDVT-6AU	
	5-60 sec.		124923	NMRDVT-60AU	
	50-600 sec.		124926	NMRDVT-600AU	
Delayed OFF timer through contact timer	direct 24-240VAC/DC	0.06 sec.-6000 min.	1 changeover	124927	NMTDV
Symmetric intermit-tence	direct 24-240VAC/DC	0.6 sec.-6000 min.	1 changeover	124928	NMIFV
Asymmetric intermit-tence started by con-nection	direct 24-240VAC/DC	0.6 sec.-6000 min.	1 changeover	124929	NMIVV
Multifunction or pause (selectable)	direct 24-240VAC/DC	0.06 sec.-6000 min.	1 changeover	124930	NMMFV
	with transformer 110/125V			124931	NMMFVT2AJ*
	with transformer 200/240V			124932	NMMFVT3AM*
	with transformer 380/440V			124933	NMMFVT4AU*



IEC Electronic Timers & Protective Relays

Liquid level detectors



DINIL 02



DINIL-03E



SON

Supply voltage	Contacts	Number of circuits	Cat. no. ⁽¹⁾	List Price, GO-10RT
Liquid level detector relays				
With transformer	DINIL....	2	DINIL 02 ●	\$155.00
	1 selectable NO-NC contact	1	DINIL 03 ●	190.00
	DINIL ...E (Plug-in)	2	DINIL 02E ●	125.00
	1 selectable NO-NC contact	1	DINIL 03E ●	150.00
11 pins socket for DINIL-02E and DINIL-03E for panel fixing. Front terminals (GO-10PR)			CR420KA3	12.00

	Cable length	Cat. no. ⁽¹⁾	List Price, GO-10RT
Probes			
Cable union and probe encapsulated and protected by thermoplastic housing	5 m., 16.4'	SON-1	\$33.00
	10 m., 32.8'	SON-2	45.00
Without cable. Waterproof and protected with a thermoplastic housing	-	SON-3	23.00



IEC Electronic Timers & Protective Relays

Ground fault



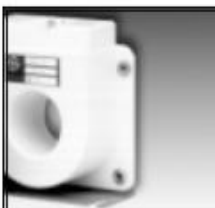
RDH



RDHT



RDHA



WKA[®]

Contacts	Sensitivity (A)	Differential Transformer		Ground Fault	
		Cat. no. ⁽¹⁾	List Price GO-10RT	Cat. no. ⁽¹⁾	List Price GO-10RT
Differential ground fault hand reset					
RDH1-... Without test One selectable NO-NC contact	0.2 - 1.2	WKA 35 - 1.2A/2V	\$134.00	RDH 1-1.2 ●	\$225.00
		WKA 70 - 1.2A/2V	188.00		
		WKA 105 - 1.2A/2V	375.00		
		WKA 140 - 1.2A/2V	467.00		
		WKA 210 - 1.2A/2V	1357.00		
1 - 10	0.2 - 1.2	WKA 35 - 10A/2V	134.00	RDH 1-10 ●	131.00
		WKA 70 - 10A/2V	188.00		
		WKA 105 - 10A/2V	375.00		
		WKA 140 - 10A/2V	467.00		
		WKA 210 - 10A/2V	1357.00		
RDHT1-... With test One selectable NO-NC contact	0.2 - 1.2	WKAT 35 - 1.2A/2V	168.00	RDHT 1-1.2 ●	253.00
		WKAT 70 - 1.2A/2V	263.00		
		WKAT 105 - 1.2A/2V	472.00		
		WKAT 140 - 1.2A/2V	660.00		
		WKAT 210 - 1.2A/2V	1438.00		
1 - 10	0.2 - 1.2	WKAT 35 - 10A/2V	168.00	RDHT 1-10 ●	147.00
		WKAT 70 - 10A/2V	263.00		
		WKAT 105 - 10A/2V	472.00		
		WKAT 140 - 10A/2V	660.00		
		WKAT 210 - 10A/2V	1438.00		
Differential ground fault with automatic reset					
RDHA1-... With test One selectable NO-NC contact	0.2 - 1.2	WKAT 35 - 1.2A/2V	168.00	RDHA 1-1.2 ●	195.00
		WKAT 70 - 1.2A/2V	263.00		
		WKAT 105 - 1.2A/2V	472.00		
		WKAT 140 - 1.2A/2V	660.00		
		WKAT 210 - 1.2A/2V	1438.00		
1 - 10	0.2 - 1.2	WKAT 35 - 10A/2V	168.00	RDHA 1-10 ●	144.00
		WKAT 70 - 10A/2V	263.00		
		WKAT 105 - 10A/2V	472.00		
		WKAT 140 - 10A/2V	660.00		
		WKAT 210 - 10A/2V	1438.00		

Differential transformers are used in conjunction with ground fault relays. See pages 25 and 38.



IEC Electronic Timers & Protective Relays

Control and protection



RDFF

Supply voltage contact	Operating range U min.% U max.%		Unbalance %	Mains frequency	Cat. no. ⁽¹⁾	List Price, GO-10RT
Integral protection relays for three-phase lines						
With transformer RDFF 1-... 1 selectable NO-NC	5 - 20%	5 - 15%	2.5 - 10%	50 Hz	RDFF1-50 ●	\$225.00
				60 Hz	RDFF1-60 ●	225.00
Unbalance and phase failure protection relay for three-phase lines						
With transformer RPDF 1- ... 1 selectable NO-NC RPDF 2- ... 2 selectable NO-NC	-	-	2.5 - 10%	50 Hz	RPDF1-50 ●	131.00
					RPDF2-50 ●	157.00
				60 Hz	RPDF1-60 ●	131.00
					RPDF2-60 ●	157.00
Unbalance, phase failure and minimum voltage protection relay for three-phase lines						
With transformer RDMT 1 1 selectable NO-NC	0 - 20%	2 - 10%	2.5 - 10%	50 Hz	RDMT1-50 ●	196.00
Phase sequence and phase failure protection relay for three-phase lines						
With transformer RSFF 1-... 1 selectable NO-NC	-	-	-	50 Hz	RSFF1-50 ●	144.00
				60 Hz	RSFF1-60 ●	144.00
Maximum and minimum voltage protection relay for three-phase lines						
With transformer RTMM 1 1 selectable NO-NC RTMM 2 2 selectable NO-NC	5 - 20%	5 - 15%	-	-	RTMM 1 ●	157.00
					RTMM 2 ●	165.00
Maximum and minimum voltage protection relay for single-phase lines						
With transformer RMM 1 1 selectable NO-NC RMM 2 2 selectable NO-NC	5 - 20%	5 - 15%	-	-	RMM 1 ●	117.00
					RMM 2 ●	125.00



RSF



RMM



IEC Electronic Timers & Protective Relays

Control and protection



RDT



RDI

Operating range	Voltage drop	Input impedance	Max. input voltage current	Available contacts	Cat. no. ⁽¹⁾⁽²⁾	List Price, GO-10RT
Voltage detector relays						
0.1 - 1V	-	10 kΩ	40V	1	RDT1-1V ●	\$401.00
				2	RDT2-1V ●	414.00
0.5 - 5V	-	10 kΩ	60V	1	RDT1-5V ●	401.00
				2	RDT2-5V ●	414.00
1 - 10V	-	20 kΩ	75V	1	RDT1-10V ●	401.00
				2	RDT2-10V ●	414.00
3 - 30V	-	60 kΩ	110V	1	RDT1-30V ●	401.00
				2	RDT2-30V ●	414.00
12 - 125V	-	250 kΩ	300V	1	RDT1-125V ●	401.00
				2	RDT2-125V ●	414.00
40 - 400V	-	800 kΩ	600V	1	RDT1-400V ●	401.00
				2	RDT2-400V ●	414.00
0.1 - 1V	-	10 kΩ	40V	1	RDTA1-1V ●	767.00
				2	RDTA2-1V ●	423.00
0.5 - 5V	-	10 kΩ	60V	1	RDTA1-5V ●	767.00
				2	RDTA2-5V ●	423.00
1 - 10V	-	20 kΩ	75V	1	RDTA1-10V ●	767.00
				2	RDTA2-10V ●	423.00
3 - 30V	-	60 kΩ	110V	1	RDTA1-30V ●	767.00
				2	RDTA2-30V ●	423.00
12 - 125V	-	250 kΩ	300V	1	RDTA1-125V ●	767.00
				2	RDTA2-125V ●	423.00
40 - 400V	-	800 kΩ	600V	1	RDTA1-400V ●	767.00
				2	RDTA2-400V ●	423.00
Current detector relays						
1 - 10A	0.33V	0.033 Ω	12A	1	RDI1-10A ●	400.00
				2	RDI2-10A ●	415.00
0.5 - 5A	0.25V	0.05 Ω	10A	1	RDI1-5A ●	400.00
				2	RDI2-5A ●	415.00
0.1 - 1A	0.5V	0.5 Ω	3A	1	RDI1-1A ●	400.00
				2	RDI2-1A ●	415.00
20 - 200mA	0.44V	2.2 Ω	1A	1	RDI1-0.2A ●	400.00
				2	RDI2-0.2A ●	415.00
20 - 200mV		1 kΩ	15V	1	RDI1-0.2V ●	400.00
				2	RDI2-0.2V ●	415.00
1 - 10A	0.33V	0.033 Ω	12A	1	RDIA1-10A ●	410.00
				2	RDIA2-10A ●	425.00
0.5 - 5A	0.25V	0.05 Ω	10A	1	RDIA1-5A ●	410.00
				2	RDIA2-5A ●	425.00
0.1 - 1A	0.5V	0.5 Ω	3A	1	RDIA1-1A ●	410.00
				2	RDIA2-1A ●	425.00
20 - 200mA	0.44V	2.2 Ω	1A	1	RDIA1-0.2A ●	410.00
				2	RDIA2-0.2A ●	425.00
20 - 200mV		1 kΩ	15V	1	RDIA1-0.2V ●	410.00
				2	RDIA2-0.2V ●	425.00



IEC Electronic Timers & Protective Relays

Control and protection



RDIT

Operating range	Voltage drop	Input impedance	Max. input voltage current	Available contacts	Cat. no. ⁽¹⁾⁽²⁾	List Price, GO-10RT
Current detector relays with delay (0.5 - 15 s.)						
1 - 10A	0.33V	0.033 Ω	12A	1	RDIT1-10A ●	\$420.00
				2	RDIT2-10A ●	435.00
0.5 - 5A	0.25V	0.05 Ω	10A	1	RDIT1-5A ●	420.00
				2	RDIT2-5A ●	435.00
0.1 - 1A	0.5V	0.5 Ω	3A	1	RDIT1-1A ●	420.00
				2	RDIT2-1A ●	435.00
20 - 200mA	0.44V	2.2 Ω	1A	1	RDIT1-0.2A ●	420.00
				2	RDIT2-0.2A ●	435.00
20 - 200mV		1 kΩ	15V	1	RDIT1-0.2V ●	420.00
				1	RDIT2-0.2V ●	435.00
1 - 10A	0.33V	0.033 Ω	12A	1	RDITA1-10A ●	430.00
				2	RDITA2-10A ●	445.00
0.5 - 5A	0.25V	0.05 Ω	10A	1	RDITA1-5A ●	430.00
				2	RDITA2-5A ●	445.00
0.1 - 1A	0.5V	0.5 Ω	3A	1	RDITA1-1A ●	430.00
				2	RDITA2-1A ●	445.00
20 - 200mA	0.44V	2.2 Ω	1A	1	RDITA1-0.2A ●	430.00
				2	RDITA2-0.2A ●	445.00
20 - 200mV		1 kΩ	15V	1	RDITA1-0.2V ●	430.00
				2	RDITA2-0.2V ●	445.00



IEC Electronic Timers & Protective Relays

Control and protection



RSR



RCF-1

Available contacts	Thermal probe resistance operating range ⁽²⁾		Cat. no. ⁽¹⁾	List Price, GO-10RT
	When cold	When hot		
Thermistor relay				
1 selectable NO-NC	1.5 kΩ	2.5 kΩ	RS01N ●	\$150.00
Available contacts				
Available contacts	Thermal range with PT100 probe ⁽²⁾		Cat. no. ⁽¹⁾	List Price, GO-10RT
Thermistor relay (adjustable)				
1 selectable NO-NC	30 - 60°C, 86 - 140°F		RSR1-30 ●	\$150.00
	55 - 85°C, 131 - 185°F		RSR1-55 ●	150.00
	80 - 110°C, 176 - 230°F		RSR1-80 ●	150.00
	105 - 135°C, 221 - 275°F		RSR1-105 ●	150.00
	130 - 180°C, 266 - 356°F		RSR1-130 ●	150.00
Available contacts				
Available contacts	Jumper terminals	Setting range	Cat. no. ⁽¹⁾	List Price, GO-10RT
Frequency control relay				
1 selectable NO-NC	Without	5 - 15Hz	RCF-1 ●	\$230.00
	Y1 - Y2	15 - 45Hz		
	Y1 - Y3	45 - 135Hz		
Available contacts				
		Capacitor Bank Steps	Cat. no. ⁽¹⁾	List Price, GO-10RT
Computerized reactive power regulator (1:1:1 or 1:2:2 Selectable Program)				
		6	RPRB-6V ●	\$750.00
		12	RPRB-12V ●	\$975.00