



## SIRIUS 3R Contactor Mountable Timing Relays and Modules

### Contactor Mountable Timing Relays

Technical data according to IEC 1812-1/DIN VDE 0435 Part 2021				
Type	3RT1916-2E... -2F... -2G...	3RT1926-2E... -2F... -2G...	<b>Rated operational voltage <math>U_s</math></b>	AC/DC 50/60Hz, 24V AC 50/60Hz <sup>①</sup> , 100 to 127V AC 50/60Hz <sup>①</sup> , 200 to 240V
	<b>Coil voltage tolerance</b>		0.85 to 1.1 × $U_s$	
<b>Setting accuracy</b> referred to the end scale value		≤ ± 15%	<b>Conventional thermal current = rated operational current <math>I_e</math>/AC-12:</b>	
<b>Repeat accuracy</b>		≤ ± 1%	6A	
<b>Mean value tolerance</b> of the timer setting according to the reference conditions $t_0 = 25^\circ\text{C}$ , 77°F and $1.0 \times U_s$		≤ ± 1%	<b><math>I_e</math>/AC-15:</b>	
Voltage influence at $0.8 \times U_s$			3 A at $U_e = 230\text{V}$ 0.1 A at $U_e = 230\text{V}$ 0.2 A at $U_e = 110\text{V}$ 1 A at $U_e = 24\text{V}$	
Voltage influence at $1.1 \times U_s$		≤ ± 1%	<b><math>I_e</math>/DC-13:</b>	
Voltage influence at $-25^\circ\text{C}$ ( $-13^\circ\text{F}$ )		≤ ± 3%	<b>Mechanical life</b>	
Voltage influence at $+60^\circ\text{C}$ ( $+140^\circ\text{F}$ )		≤ ± 3%	10 million operation cycles	
<b>Operating times</b>		ms 150 ms 50 ms 200	<b>Electrical life</b>	
ON-delay and Wye-Delta function:			(at $I_e$ /AC-15)	
Recovery time: during timing			100,000 operating cycles	
after timing			<b>Switching frequency</b>	
OFF-delay function without auxiliary voltage			(at $I_e$ /AC-15)	
Minimum operating time:			2500 operating cycles/h	
<b>Degree of protection</b>		IP 40 terminals IP 20	<b>Contact reliability</b>	
<b>Rated insulation voltage</b>		250V	(at $U_e = 17\text{V DC}$ , $I_e = 50\text{mA}$ )	
			Frequency of contact faults $<10^{-6}$ (less than 1 fault in 1 million switching operations)	
			<b>Short-circuit protection for export applications</b>	
			No-contact welding: DIAZED gG/gL	
			4A or 6A fast	
			Contact rating: UL, CSA	
			A 600, Q 600	

### Contactor Timing Modules

Technical data according to IEC 1812-1/DIN VDE 0435 Part 2021				
Type	3RT1916-2C -2D	3RT1926-2C -2D	<b>Rated output</b>	
	(power consumption)		W <1 VA <1	
<b>Setting accuracy</b> referred to the end scale value		≤ ± 15%	<b>Rated operational current</b>	
<b>Repeat accuracy</b>		≤ ± 1%	(semiconductor output)	
<b>Mean value tolerance</b> of the timer setting according to the reference conditions $t_0 = 25^\circ\text{C}$ , 77°F and $1.0 \times U_s$		≤ ± 3%	3RT1916	
Voltage influence at $0.8 \times U_s$			A 0.3	
Voltage influence at $1.1 \times U_s$		≤ ± 1%	3RT1926	
Voltage influence at $-25^\circ\text{C}$ ( $-13^\circ\text{F}$ )		≤ ± 3%	A 0.5	
Voltage influence at $+60^\circ\text{C}$ ( $+140^\circ\text{F}$ )		≤ ± 3%	Residual current	
<b>Operating times</b>		ms 50 ms 35	mA 5	
Recovery time:			Voltage drop switched through	
Minimum ON period:			V 3.5	
with OFF-delay			<b>Short-time loading capacity for 10 ms</b>	
<b>Protection degree</b> according to EN 60 529		IP 40 terminals IP 20	3RT1916	
<b>Permissible ambient temperature</b>		in operation when stored °C (°F) -25 to + 60 (-13 to + 140) -40 to + 85 (-40 to + 185)	A 5	
<b>Coil Voltage tolerance</b>			3RT1926	
<b>Rated frequency</b>		0.95 to 1.05	A 10	
			<b>Mechanical life</b>	
			operat. cycles	
			100 million	
			<b>Switching frequency</b>	
			at load with $I_e$ , AC 230V	
			1/h 2500	
			at load with 3RT101 contactor, AC 230V	
			1/h 5000	
			<b>Overvoltage protection</b>	
			varistor integrated in timing module	

① With 3RT1916-2F and 3RT1926-2F (OFF-delay): AC/DC 50/60Hz

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IEC Control