

Function	Casing	Output	Voltage	Connection	Designation	Rated current	
• Delay on energisation (A)	17.5 mm	Solid state	24 to 240 VAC/DC	Screw terminals	MAS5	0.7 A	88 826 014
	35 mm	2 relays	24 VDC 24 to 240 VAC	8-pin	OA2R1	8 A	88 867 215
• Timing on impulse (one shot) (B)	17.5 mm	1 relay	24 VDC 24 to 240 VAC	Screw terminals	MBR1	8 A	88 826 125
	22.5 mm				TBR1		88 865 125
• Timing after impulse Off-delay timer (C)	17.5 mm	1 relay	24 VDC 24 to 240 VAC	Screw terminals	MCR1	8 A	88 826 135
	22.5 mm				TCR1		88 865 135
	Plug-in			2 relays	8-pin		OCR1
		11-pin			PC2R1		88 867 435
• Timing on energisation (H)	17.5 mm	Solid state	24 to 240 VAC	Screw terminals	MHS2	0.7 A	88 826 044
• Delay on de-energisation True delay off (K)	22.5 mm	2 relays	24 VDC 24 to 240 VAC	Screw terminals	TK2R1	8 A	88 865 265
• Starting "Star-Delta" (Q)	22.5 mm	1 relay	24 VDC 24 to 240 VAC	Screw terminals	TQR1	8 A	88 865 175
• Delay on energisation (A) • Delay on energisation with memory (At)	17.5 mm	1 relay	24 VDC 24 to 240 VAC	Screw terminals	MAR1	8 A	88 826 115
	22.5 mm				TAR1		88 865 115
		Plug-in		2 relays	11-pin		TA2R1
	PA2R1						88 867 415
• Timing on energisation (H) • Timing on energisation with memory (Ht)	17.5 mm	1 relay	24 VDC 24 to 240 VAC	Screw terminals	MHR1	8 A	88 826 145
22.5 mm	THR1				88 865 145		
• Cyclic timing Pause starting (L) • Cyclic timing Pulse starting (Li)	17.5 mm	Solid state	24 to 240 VAC	Screw terminals	MLS2	0.7 A	88 826 054
	22.5 mm	1 relay	24 VDC 24 to 240 VAC		MLR1		88 826 155
				Plug-in	2 relays	8-pin	OLR1
	11-pin	PL2R1	88 867 455				



MAR 1



TAR 1



OLR 1

MONO-FUNCTION

2

# CHRONOS 2 DIN rail mounted timers

Function	Casing	Output	Voltage	Connection	Designation	Rated current			
<b>MULTI-FUNCTION</b> <ul style="list-style-type: none"> <li>• Delay on energisation (A)</li> <li>• Delay on energisation with memory (At)</li> <li>• Timing on impulse (one shot) Shaping (B)</li> <li>• Timing after impulse Off-delay timer (C)</li> <li>• Timing on energisation (H)</li> <li>• Timing on energisation with memory (Ht)</li> <li>• Cyclic timing Pause start (D)</li> <li>• Cyclic timing Pulse start (Di)</li> <li>• Pulse output (adjustable) (Bw)</li> <li>• Timing after closing and opening of control contact (Ac)</li> </ul>	17.5 mm	1 relay	12 VAC/DC	Screw terminals	MUR4	8 A	88 826 100		
			12 to 240 VAC/DC		MUR3		88 826 103		
				24 VDC 24 to 240 VAC	Spring terminals		MURc3	88 826 503	
			24 to 240 VAC				Screw terminals	MUR1	88 826 105
	22.5 mm	1 relay		12 to 240 VAC/DC	Screw terminals	MUS2		0.7 A	88 826 004
			TUR4			88 865 100			
			TUR3		88 865 103				
		2 relays	12 to 230 VAC	Spring terminals	TURc3	8 A	88 865 503		
					TUR1		88 865 105		
					TU2R4		88 865 300		
	Plug-in	1 relay	12 to 240 VAC/DC	8-pin	TU2R1	8 A	88 865 305		
					TU2R3		88 865 303		
					OUR4		88 867 100		
		2 relays	12 to 240 VAC/DC	11-pin	OUR3	8 A	88 867 103		
					OUR1		88 867 105		
					PU2R1		88 867 305		
	17.5 mm	1 relay	24 VDC 24 to 240 VAC	Screw terminals	PU2R4	8 A	88 867 300		
					PU2R3		88 867 303		
	22.5 mm	2 relays	12 to 240 VAC/DC	Screw terminals	OUR1	8 A	88 867 105		
					OUR3		88 867 103		
OUR4					88 867 100				
17.5 mm	1 relay	24 VDC 24 to 240 VAC	Screw terminals	MXR1	8 A	88 826 185			
				22.5 mm		2 relays	12 to 240 VAC/DC	TXR1	88 865 185
								TX2R1	88 865 385



Timing ranges 0.1 s to 100 hrs (generic to all CHRONOS 2)

Function	Output	Voltage*	Connection	Designation	Rated current	
<b>MONO-FUNCTION</b> Delay on energisation (A)	2 relays	12 VDC	8-pin	RTMA 2	5 A	88 895 101
		24 VDC				88 895 102
		24 VAC				88 895 103
		110 VAC				88 895 106
		230 to 240 VAC				88 895 107
	4 relays	12 VDC	14-pin	RTMA 4	3 A	88 896 201
		24 VDC				88 896 202
		24 VAC				88 896 203
		110 VAC				88 896 206
		230 to 240 VAC				88 896 207



Timing ranges 0.1 s to 100 hrs

\*48 VAC or VDC possible if an additional resistor is used

Function	Timing (to be specified when ordering)	Voltage	Connection	Designation	Solid state output	
A	60 min	12 VDC	Faston connectors 6.35 mm	SAS	0,7 A	88 870 1
		24 VAC				
		48 VAC				
		110 VAC				
		220-240 VAC				
Ap	100 s	12 VDC	Faston connectors 6.35 mm	SAS P	0,7 A	88 870 1
		24 VAC				
		48 VAC				
		110 VAC				
		220-240 VAC				
Ad	60 min	12 VDC	Faston connectors 6.35 mm	SAS D	0,7 A	88 870 1
		24 VAC				
		48 VAC				
		110 VAC				
		220-240 VAC				
Ai	60 min	12 VDC	Faston connectors 6.35 mm	SAS I	0,7 A	88 870 1
		24 VAC				
		48 VAC				
		110 VAC				
		220-240 VAC				
B	60 min	24 VAC	Faston connectors 6.35 mm	SBS	0,7 A	88 870 2
		48 VAC				
		110 VAC				
		230 VAC				
Bp	100 s	24 VAC	Faston connectors 6.35 mm	SBS P	0,7 A	88 870 2
		48 VAC				
		110 VAC				
		230 VAC				
Bd	60 min	24 VAC	Faston connectors 6.35 mm	SBS D	0,7 A	88 870 2
		48 VAC				
		110 VAC				
		230 VAC				
C	60 min	24 VAC	Faston connectors 6.35 mm	SCS	0,7 A	88 870 3
		48 VAC				
		110 VAC				
		230 VAC				
Cp	100 s	24 VAC	Faston connectors 6.35 mm	SCS P	0,7 A	88 870 3
		48 VAC				
		110 VAC				
		230 VAC				
Cd	60 min	24 VAC	Faston connectors 6.35 mm	SCS D	0,7 A	88 870 3
		48 VAC				
		110 VAC				
		230 VAC				
E	10 min	24 VAC	Faston connectors 6.35 mm	SDS B	0,7 A	88 870 5
		48 VAC				
		110 VAC				
		230 VAC				
Ep	10 min	24 VAC	Faston connectors 6.35 mm	SDS BP	0,7 A	88 870 5
		48 VAC				
		110 VAC				
		230 VAC				
Ed	10 min	24 VAC	Faston connectors 6.35 mm	SDS BD	0,7 A	88 870 5
		48 VAC				
		110 VAC				
		230 VAC				



Function	Timing (to be specified when ordering)	Voltage	Connection	Designation	Solid state output	
E1	1 s	40 to 240 VAC	Faston connectors 6.35 mm	SDS 1A	0,7 A	88 870 5
		10 to 50 VAC		SDS 2A		
E2	1 s	40 to 240 VAC	Faston connectors 6.35 mm	SHS 1B	0,7 A	88 870 5
		10 to 50 VAC		SHS 2B		
H (2 wire)	60 min	24 VAC	Faston connectors 6.35 mm	SHS B	0,7 A	88 870 4
		48 VAC				
		110 VAC				
		230 VAC				
Hp (2 wire)	100 s	24 VAC	Faston connectors 6.35 mm	SHS BP	0,7 A	88 870 4
		48 VAC				
		110 VAC				
		230 VAC				
Hd (2 wire)	60 min	24 VAC	Faston connectors 6.35 mm	SHS BD	0,7 A	88 870 4
		48 VAC				
		110 VAC				
		230 VAC				
Hi (4 wire)	60 min	24 VAC	Faston connectors 6.35 mm	SHI S	0,7 A	88 870 4
		48 VAC				
		110 VAC				
		230 VAC				
H (3 wire)	100 s	24 VAC	Faston connectors 6.35 mm	SHS	0,7 A	88 870 4
		48 VAC				
		110 VAC				
		230 VAC				
H (3 wire)	60 min	24 VAC	Faston connectors 6.35 mm	SHS P	0,7 A	88 870 4
		48 VAC				
		110 VAC				
		230 VAC				
Hp (3 wire)	60 min	24 VAC	Faston connectors 6.35 mm	SHS D	0,7 A	88 870 4
		48 VAC				
		110 VAC				
		230 VAC				
Prevention of compressor short-cycling (ACC1)	10 min	24 VAC	Faston connectors 6.35 mm	SAS X	0,7 A	88 870 8
		48 VAC				
		110 VAC				
		230 VAC				
Prevention of compressor short-cycling (ACC2)	10 min	24 VAC	Faston connectors 6.35 mm	SAS C	0,7 A	88 870 0
		48 VAC				
		110 VAC				
		230 VAC				
Prevention of compressor short-cycling (ACC3)	180 s 240 s 330 s	24 VAC	Faston connectors 6.35 mm	SAS CB	0,7 A	88 870 6
		48 VAC				
		110 VAC				
		230 VAC				
Prevention of compressor short-cycling (La)	T on : 60 min T off : 60 min	24 VAC	Faston connectors 6.35 mm	SGS	0,7 A	88 870 7
		48 VAC				
		110 VAC				
		230 VAC				
Prevention of compressor short-cycling (L)	T on : 60 min T off : 60 min	24 VAC	Faston connectors 6.35 mm	SGS I	0,7 A	88 870 7
		48 VAC				
		110 VAC				
		230 VAC				
Prevention of compressor short-cycling (X)	T1 on : 60 min T2 off : 60 min	24 VAC	Cosses faston 6,35 mm	SFS	0,7 A	88 870 9
		48 VAC				
		110 VAC				
		230 VAC				



## Heat exchanger defrost relay for air conditioning system

Function	Timing max.	Voltage	Connection	Designation	Output	
Frost formation monitored by temperature probe Choice of defrosting time	90 min	90 to 260 VAC	Faston connectors 6.35 mm	NFR	1 relay	88 899 204



## Electromechanical DIN rail mounted timers

	Function	Output	Timing	Designation	Solid state output	Voltage	Connection	
MULTI-FUNCTION	2-3-4	1 relay	6 s to 12 min	TOP 2000	5 A	24 VAC	Screw terminals	88 225 013
						42 to 48 VAC		88 225 019
						110 to 127 VAC		88 225 012
						220 to 240 VAC		88 225 011
			6 min to 12 h			24 VAC		88 225 016
						42 to 48 VAC		88 225 017
						110 to 127 VAC		88 225 015
						220 to 240 VAC		88 225 014

