

# RE 1 timing relays

## Solid state output, width 17.5 mm

References : page 28411/3 Dimensions, schemes : page 28411/4 Compatibility : page 28411/5

Characteristics

Туре	RE1	<b>-LA</b> (	(On-delay)	<b>RE1-LC</b> (Off-delay)
Environment				
Conforming to standards	IEC and	144, 1 EN 5(	58-1 and 255-5, NF C 20- 0005	010, 20-040 and 63-030, VDE 0110 C
Product certifications	CSA	, NEN	IKO, SEMKO, BV	NEMKO, BV
	"~!!!			<u></u>

Protective treatment			I H	IH
Ambient air temperature	Operation	°C	- 25+ 60	- 25+ 60
around the device	Storage	°C	- 40+ 85	- 40+ 85
Rated insulation voltage (Ui)	Conforming to IEC 158-1 and CSA	V	IEC 158-1 : 250; CSA : 300	IEC 158-1 : 250 ; CSA : 300
Vibration resistance	Severity	Α	55	55
Conforming to NF C 20-616 & IEC 68-2-6	Permissible acceleration		5 gn (60500 Hz)	5 gn (60500 Hz)
Shock resistance	Severity	Α	50	50
Conforming to NF C 20-608	Permissible acceleration		50 gn (pulse duration 11 ms)	50 gn (pulse duration 11 ms)
Degree of protection			IP 40	IP 40
Maximum operating altitude	Without derating	m	3000	3000
Operating positions	Without derating		Any position	Any position
Cabling	Using cable	mm <sup>2</sup>	$1 \times 0.75$ to $2 \times 1.5$ , with or without of	cable end; captive screw clamps
	Using Faston connectors		2 x 2.8 or 2 x 6.35	
	Lleing open or closed tage		Removable screw clamps	

#### Control circuit characteristics

Supply voltage	And permissible variation	v	$\sim$ and $-$ 24…240; 0.8…1.1 Un	$\sim$ 24240; 0.81.1 Un
Frequency	And permissible variation	Hz	50/60 ± 20 %	50/60 ± 20 %
Control contact	Hard-wired connection only		-	RE1-LC: connecting cable
				to timer ≤ 10 m

### Time delay characteristics

Timing range			0.13 s; 130 s; 10300 s; 2	60 min	
Setting accuracy			$0.1300 \text{ s} : \le 10 \%$ of the full scale $260 \text{ min} : \le 15 \%$ of the full scale		
Repeat accuracy	Conforming to VDE 0435		± 3 % (040 °C)	±3% (040 °C)	
Reset time	Range from 0.1300 s	ms	150 (25 after the time delay)	200	
during the time delay period	Range from 260 min	ms	650 (25 after the time delay)	1600	
Maximum immunity to	Range from 0.1300 s	ms	10 (2 after the time delay)	20	
micro-breaks during the time delay period	Range from 260 min	ms	200 (2 after the time delay)	200	
Time delay indication	By integral LED		LED illuminates during the time del	lay period	

## Switching characteristics (solid state type)

Maximum continuous current	At ambient A : 20 °C	•	0.7 (minimum 10 mÅ)	0.7 (minimum 10 mÅ)
maximum continuous current		<u>^</u>		
Maximum short time rating	For 10 ms	Α	15	15
Volt drop, "closed state"		v	3 max to 0.7 A	3 max to 0.7 A
Leakage current "open state"		mA	≤ 5	≤1
Maximum power loss		w	2.5	4
Derating	For temperature > 20 °C	mA	5 per °C	5 per °C
Overload protection	Conforming to IEC 255-5		3 kV 0.5 joule	3 kV 0.5 joule
Electrical durability	In millions of operating cycles		100	100

28411/2 🗊 Telemecanique

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Characteristics : page 28411/2 Dimensions, schemes : page 28411/4 Compatibility : page 28411/5

#### References



Type of	Type of	Timing	Reference	Weight
circuit	connection	range		кд
a.c. or d.c.	For cable 1 x 0.75 to 2 x 1.5 mm <sup>2</sup>	<u>0.13 s</u>	RE1-LA001	0.055
24240 V	recessed +/- screw clamp	<u>130 s</u>	RE1-LA002	0.055
	terminals.	<u>10300 s</u>	RE1-LA003	0.055
		260 min	RE1-LA004	0.055
	For open or closed tags	<u>0.13 s</u>	RE1-LA301	0.055
	terminals.	<u>130 s</u>	RE1-LA302	0.055
		<u>10300 s</u>	RE1-LA303	0.055
		260 min	RE1-LA304	0.055
	For Faston connectors 2 x 2.8	<u>0.13 s</u>	RE1-LA101	0.055
	or 2 × 6.35	<u>130 s</u>	RE1-LA102	0.055
		<u>10300 s</u>	RE1-LA103	0.055
		260 min	RE1-LA104	0.055
Off-delay tim	ners			
a.c.	For cable 1 x 0.75 to 2 x 1.5 mm <sup>2</sup>	0.13 s	RE1-LC011	0.055
24240 V	with or without cable end, recessed +/- screw clamp	<u>130 s</u>	RE1-LC012	0.055
	terminals.	<u>10300 s</u>	RE1-LC013	0.055
		260 min	RE1-LC014	0.055
	For open or closed tags	<u>0.13 s</u>	RE1-LC311	0.055
	recessed +/- screw clamp terminals.	<u>130 s</u>	RE1-LC312	0.055

a.c.	For cable 1 x 0.75 to 2 x 1.5 mm <sup>2</sup>	<u>0.13 s</u>	RE1-LC011	0.055
24240 V	with or without cable end, recessed +/- screw clamp	<u>130 s</u>	RE1-LC012	0.055
	terminals.	<u>10300 s</u>	RE1-LC013	0.055
		260 min	RE1-LC014	0.055
	For open or closed tags	0.13 s	RE1-LC311	0.055
	recessed +/- screw clamp terminals.	<u>130 s</u>	RE1-LC312	0.055
		10300 s	RE1-LC313	0.055
		260 min	RE1-LC314	0.055
	For Faston connectors 2 x 2.8	0.13 s	RE1-LC111	0.055
	or 2 x 6.35	130 s	RE1-LC112	0.055
		<u>10300 s</u>	RE1-LC113	0.055
		260 min	RE1-LC114	0.055
Accessories	(to be ordered separately)			
Description		Sold in	Unit	Weight

Description		Sold in lots of	Unit reference	Weight kg
Lead sealing kit		10	LA9-RE01	0.005
Mounting plate	For M4 screws, 40 mm centres	10	AM1-PT01	0.020
Clip-in markers (5 max. per	Strip of 10 identical numbers (0 to 9)	25	<b>AB1-R</b> (1)	0.002
timer)	Strip of 10 identical capital letters (A to Z)	25	<b>AB1-G</b> (1)	0.002

(1) To order, add the required number or letter to the end of the reference.

Other versions

Cabling by captive or removable screw clamp connections; Faston connectors. For other information : bulk purchase, prices, delivery times, please consult your Regional Sales Office.



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RE1-LC013



RE1-LC112

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Dimensions, mounting, schemes

## Dimensions and mounting methods for timers RE1-LA and LC

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(1) 60 with AM1-DP, 67.5 with AM1-DE

#### Wiring schemes

Caution : The terminal references enclosed in brackets refer to old version electronic timers.

#### **RE1-LA On-delay**



The timer is connected in series between the load which requires delayed energisation and switch K. The mains supply can be a.c. or d.c. with any voltage between 24 V and 240 V. (See page opposite for use of timer in conjunction with other Telemecanique products).

#### **RE1-LC Off-delay**



The timer is connected in series with the load which requires delayed de-energisation. Switch K is linked to terminals Y2 and A2 of the timer and terminal A2 is linked to the mains supply as shown in the scheme opposite. The unit operates on a.c. current at a voltage between 24 V and 240 V. (See page opposite for use of timer in conjunction with other Telemecanique products).

#### Sequential diagrams



Mains supply R must be switched on. When switch K closes, the set timing period  $\boldsymbol{t}$  starts and built-in indicator V lights up simultaneously. When the set time period  ${f t}$  has elapsed, load C is energised and indicator V goes out. Load C remains energised until switch K opens or until the mains supply R is switched off.

#### RE1-LC Off-delay



Mains supply R must be switched on. When switch K closes, load C is energised. When switch K opens, timing starts and built-in indicator V lights up simultaneously. When set time t has elapsed, load C is de-energised and indicator V goes out. Load C then remains de-energised until switch K closes again.

Characteristics age 28411/2 eferences age 28411/3 page 28411/5

Characteristics : page 28411/2 References : page 28411/3 Dimensions and schemes : page 28411/4



**RE1-LA001** 



**RE1-LC112** 



**RE1-LA301** 

Solid state output, width 17.5 mm

### Compatibility with other Telemecanique products

The electronic timer can only operate correctly if the characteristics of the equipment with which it is associated are compatible with the switching characteristics of the timer.

## a.c. circuit 50 or 60 Hz

All RE1-LA and RE1-LC electronic timers are compatible with the Telemecanique a.c. controlled components listed below :

Contactors for electric	ity supply authority dual tariffs,	control relays, plug-in control relays
Туре	Operational	Comments
	voltage $\sim$	
<u>GY1-M</u>	220 V 50 Hz	-
CA2-K	24127 V 50/60 Hz for RE1-LA	on 24 V : use a CA2-KN
	24240 V 50/60 Hz for RE1-LC	- 040 DN 77
CA2-DN	24240 V 50/60 Hz	on 24 V : use a CA2-DNeeZ7
	24240 V 50/60 Hz	on 24 V : use a CA2-DKeeZ7
KHN, KHK	24127 V 50/60 HZ	on 24 V : use an RHN, RHK-
Mini contrators and a	a nto ato ro	
Mini-contactors and c		on 24 M + upp on LC1 Kases77
LCI-K	24127 V 50/60 Hz for DE1 LC	
	24240 V 50/60 Hz 101 RET-LC	
LC1-D03	24240 V 50/60 Hz	on 24 V : use an LC1-D0300027
LC1-D18	24 240 V 50/60 Hz	on 24 V : use an LC1-D18eee77
LC1-D25	24 240 V 50/60 Hz	on 24 V : use an LC1-D2500027
LC1-D32	24240 V 50/60 Hz	on 24 V : use an LC1-D3200027
LC1-D40 to D95	110240 V 50/60 Hz	_
Integral 18, 32 and 63	contactor breakers	
LD1, LD5-LB	110240 V 50/60 Hz	-
LD1, LD4, LD5-LC and LD	110240 V 50/60 Hz	-
Contactors		
Туре	Supply	Coil Rectifier
	voltage $\sim$	
LC1-F115, F150, F185, F225	5, <u>220, 240 V 50/60 Hz</u>	LX1-FF, FG, FHeee2 –
F265, F330	220 V 50/60 Hz	LX9-FJ931 + DR5-TE4U
	240 V 50/60 Hz	LX9-FJ932 + DR5-TE4U
LC1-F500	220 V 50/60 Hz	LX9-FK931 + DR5-TE4U
	240 V 50/60 Hz	LX9-FK932 + DR5-TE4U
LC1-F630	220 V 50/60 HZ	LX9-FL930 + DR5-TE4U
	240 V 50/60 Hz	LX9-FL931 + DR5-TE40
ما م ماندمیناد		
RE1-LA timers are compatit	ble with the components listed below :	
RE1-LA timers are compatit	ble with the components listed below :	rolave
C.C. CITCUIT RE1-LA timers are compatit Mini-control relays, co	ole with the components listed below : <b>ntrol relays and plug-in control</b>	relays
C.C. CITCUIT RE1-LA timers are compatit Mini-control relays, co Type	ole with the components listed below : <b>ntrol relays and plug-in control</b> Supply voltage —	<b>relays</b> Comments
CA3-K	ble with the components listed below : ntrol relays and plug-in control Supply voltage 2472 V	relays Comments on 24 V : use a CA3-KN●●ZD
CA3-K CA3-DN	ble with the components listed below : ntrol relays and plug-in control Supply voltage 2472 V 24240 V	relays Comments on 24 V : use a CA3-KN●●ZD on 24 V : use a CA3-DN●●ZD
CA3-DK	ble with the components listed below : ntrol relays and plug-in control Supply voltage 2472 V 24240 V 24240 V	relays       Comments       on 24 V : use a CA3-KN●●ZD       on 24 V : use a CA3-DN●●ZD       on 24 V : use a CA3-DK●●ZD
CA3-DN CA3-DK CA4-DN	ble with the components listed below : ntrol relays and plug-in control Supply voltage 2472 V 24240 V 24240 V 24240 V	relays Comments on 24 V : use a CA3-KNeeZD on 24 V : use a CA3-DNeeZD on 24 V : use a CA3-DNeeZD Use a CA4-DNeeBW
CA3-DK CA3-DN CA3-DN CA3-DN CA3-DN CA3-DK CA3-DN CA3-DN CA3-DK CA4-DN RHN	ble with the components listed below : ntrol relays and plug-in control Supply voltage 2472 V 24240 V 24240 V 24240 V 24240 V 24240 V	relays Comments on 24 V : use a CA3-KN●●ZD on 24 V : use a CA3-DN●●ZD on 24 V : use a CA3-DN●●ZD Use a CA4-DN●●BW on 24 V : use an RHN-●●●JV
CA3-K CA3-DN CA3-DK CA4-DN RHN RHK	ble with the components listed below : ntrol relays and plug-in control Supply voltage 2472 V 24240 V 24240 V 24240 V 24125 V 24125 V	relays       Comments       on 24 V: use a CA3-KN●eZD       on 24 V: use a CA3-DN●eZD       on 24 V: use a CA3-DN●eZD       Use a CA4-DN●BW       on 24 V: use an RHN-●●JV       on 24 V: use an RHK-●●JV
CA3-K CA3-DN CA3-DN CA3-DK CA4-DN RHN RHK	ble with the components listed below : ntrol relays and plug-in control Supply voltage 2472 V 24240 V 24240 V 24240 V 24125 V 24125 V	relays Comments on 24 V : use a CA3-KN••ZD on 24 V : use a CA3-DN••ZD on 24 V : use a CA3-DK••ZD Use a CA4-DN••BW on 24 V : use an RHN-•••JV on 24 V : use an RHK-•••JV
CA3-DK CA3-DK CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c	ble with the components listed below : ntrol relays and plug-in control Supply voltage 2472 V 24240 V 24240 V 24125 V 24125 V contactors	relays Comments on 24 V : use a CA3-KNeeZD on 24 V : use a CA3-DNeeZD on 24 V : use a CA3-DKeeZD Use a CA4-DNeeBW on 24 V : use an RHN-eeeJV on 24 V : use an RHK-eeeJV
CA3-DK CA3-DK CA3-DK CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K	ntrol relays and plug-in control Supply voltage 2472 V 24240 V 24240 V 24125 V 24125 V ontactors 2472 V	relays Comments on 24 V : use a CA3-KN••ZD on 24 V : use a CA3-DN••ZD on 24 V : use a CA3-DK••ZD Use a CA4-DN••BW on 24 V : use an RHN-•••JV on 24 V : use an RHK-•••JV on 24 V : use an LP1-K••••ZD
CA3-CABC CA3-DN CA3-DK CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K	ole with the components listed below :     ntrol relays and plug-in control     Supply     voltage     2472 V     24240 V     24240 V     24125 V     24125 V     ontactors     2472 V     24240 V	relays Comments on 24 V : use a CA3-KN••ZD on 24 V : use a CA3-DN••ZD on 24 V : use a CA3-DK••ZD Use a CA4-DN••BW on 24 V : use an RHN-•••JV on 24 V : use an RHK-•••JV on 24 V : use an LP1-K••••ZD Use an LP4-K••••BW3
CA3-DK CA3-DK CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP4-K LP4-K	ole with the components listed below :       ntrol relays and plug-in control       Supply       voltage       2472 V       24240 V       24125 V       24125 V       24125 V       24125 V       24125 V       24240 V       24125 V       24125 V       24240 V       24240 V	relays Comments on 24 V : use a CA3-KN••ZD on 24 V : use a CA3-DN••ZD on 24 V : use a CA3-DK••ZD Use a CA4-DN••BW on 24 V : use an RHN-•••JV on 24 V : use an RHK-•••JV on 24 V : use an LP1-K••••ZD Use an LP4-K••••BW3 on 24 V : use an LP1-D••••ZD
CA3-K CA3-K CA3-DN CA3-DN CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP1-D09 to D32 LP1-D40 to D80	ble with the components listed below :     ntrol relays and plug-in control     Supply     voltage     2472 V     24240 V     24240 V     24125 V     24125 V     24125 V     24240 V     24240 V     24240 V     24240 V     24240 V     24220 V     24240 V	relays       Comments       on 24 V: use a CA3-KNeeZD       on 24 V: use a CA3-DNeeZD       on 24 V: use a CA3-DKeeZD       Use a CA4-DNeeBW       on 24 V: use an RHN-eeeJV       on 24 V: use an RHN-eeeJV       on 24 V: use an LP1-KeeeeJV       on 24 V: use an LP1-KeeeeZD       Use an LP4-KeeeBW3       on 24 V: use an LP1-DeeeeZD
CA3-K CA3-DN CA3-DN CA3-DN CA3-DN CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP1-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12	ble with the components listed below :     ntrol relays and plug-in control     Supply     voltage     2472 V     24240 V     24240 V     24125 V     24240 V     24 V	relays Comments on 24 V : use a CA3-KNeeZD on 24 V : use a CA3-DNeeZD on 24 V : use a CA3-DKeeZD Use a CA4-DNeeBW on 24 V : use an RHN-eeeJV on 24 V : use an RHK-eeeJV on 24 V : use an LP1-KeeeZD Use an LP4-KeeeBW3 on 24 V : use an LP1-DeeeeZD - Use an LP4-D12eeBW
CA3-K CA3-K CA3-DN CA3-DN CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12 Contactors	ntrol relays and plug-in control     Supply     voltage     2472 V     24240 V     24125 V     24125 V     ontactors     2472 V     24240 V     24125 V     24125 V     24240 V     24125 V     24240 V     24 V     24 V	relays Comments on 24 V : use a CA3-KN••ZD on 24 V : use a CA3-DN••ZD on 24 V : use a CA3-DK••ZD Use a CA4-DN••BW on 24 V : use an RHN••••JV on 24 V : use an RHK••••JV on 24 V : use an LP1-K••••ZD Use an LP4-K•••BW3 on 24 V : use an LP1-D••••ZD - Use an LP4-D12••BW
CA3-K CA3-C CA3-C CA3-DN CA3-DN CA3-DK CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12 Contactors Tupo	ole with the components listed below :     ntrol relays and plug-in control     Supply     voltage     2472 V     24240 V     24125 V     24125 V     ontactors     24240 V     2424 V     24125 V     24240 V	relays Comments on 24 V : use a CA3-KN••ZD on 24 V : use a CA3-DN••ZD on 24 V : use a CA3-DK••ZD Use a CA4-DN••BW on 24 V : use an RHN-•••JV on 24 V : use an RHK-•••JV on 24 V : use an LP1-K••••ZD Use an LP4-K••••BW3 on 24 V : use an LP1-D••••ZD - Use an LP4-D12••BW
CA3-K CA3-DN CA3-DK CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP4-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12 Contactors Type	ole with the components listed below :     ntrol relays and plug-in control     Supply     voltage     2472 V     24240 V     24240 V     24125 V     24125 V     ontactors     24240 V     2424 V     24125 V     ontactors     24240 V     24 V     24240 V     24 V     Supply     voltage	relays     Comments     on 24 V : use a CA3-KN••ZD     on 24 V : use a CA3-DN••ZD     on 24 V : use a CA3-DK••ZD     Use a CA4-DN••BW     on 24 V : use an RHN-•••JV     on 24 V : use an RHN-•••JV     on 24 V : use an LP1-K••••JV     on 24 V : use an LP1-K••••JV     use an LP4-K••••BW3     on 24 V : use an LP1-D••••ZD
CA3-C CITCUIT Mini-control relays, co Type CA3-K CA3-DN CA3-DN CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP4-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12 Contactors Type	ole with the components listed below :     ntrol relays and plug-in control     Supply     voltage     2472 V     24240 V     24240 V     24125 V     24125 V     ontactors     24240 V     2424 V     24125 V     ontactors     24240 V     24 V     24240 V     24 V     Supply     voltage     220 V	relays Comments on 24 V : use a CA3-KN••ZD on 24 V : use a CA3-DN••ZD on 24 V : use a CA3-DK••ZD Use a CA4-DN••BW on 24 V : use an RHN-•••JV on 24 V : use an RHN-•••JV on 24 V : use an RHK-•••JV on 24 V : use an LP1-K••••ZD Use an LP4-K••••BW3 on 24 V : use an LP1-D••••ZD 
CA3-K CA3-DN CA3-DN CA3-DN CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP4-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12 Contactors Type	Dele with the components listed below :       ntrol relays and plug-in control       Supply       voltage       2472 V       24240 V       24240 V       24125 V       24125 V       ontactors       24240 V       24125 V       Supply       voltage       24 V       24125 V       ontactors       24240 V       24 V	relays       Comments       on 24 V: use a CA3-KN••ZD       on 24 V: use a CA3-DN••ZD       on 24 V: use a CA3-DK••ZD       Use a CA4-DN••BW       on 24 V: use an RHN-•••JV       on 24 V: use an LP1-K••••ZD       Use an LP4-K••••BW3       on 24 V: use an LP1-D••••ZD       -       Use an LP4-D12••BW       Coil       LX4-FF220       LX4-FF220
CA3-K CA3-DN CA3-DN CA3-DN CA3-DN CA3-DN CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP4-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12 Contactors Type LC1-F115, F150 LC1-F185 E225	Dele with the components listed below :       ntrol relays and plug-in control       Supply       voltage       2472 V       24240 V       24240 V       24125 V       24125 V       24240 V       24125 V       24240 V       24125 V       24240 V       24240 V       24240 V       24 V	relays       Comments       on 24 V: use a CA3-KN••ZD       on 24 V: use a CA3-DN••ZD       on 24 V: use a CA3-DN••ZD       Use a CA4-DN••BW       on 24 V: use an RHN-•••JV       on 24 V: use an LP1-K••••ZD       Use an LP4-K••••BW3       on 24 V: use an LP1-D••••ZD       -       Use an LP4-D12••BW       Coil       LX4-FF220       LX4-FF250       LX4-FG20
CA3-K CA3-K CA3-DN CA3-DN CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12 Contactors Type LC1-F115, F150 LC1-F185, F225	Dele with the components listed below :       ntrol relays and plug-in control       Supply       voltage       2472 V       24240 V       24240 V       24125 V       24125 V       24240 V       24240 V       24240 V       24240 V       2425 V       Supply       24240 V       220 V       220 V       240 V       240 V       240 V       240 V	relays       Comments       on 24 V: use a CA3-KNeeZD       on 24 V: use a CA3-DNeeZD       on 24 V: use a CA3-DKeeZD       Use a CA4-DNeeBW       on 24 V: use an RHN-eeJV       on 24 V: use an RHN-eeJV       on 24 V: use an LP1-KeeeJV       Coil       LX4-FF220       LX4-FG220       LX4-FG250
CA3-K CA3-K CA3-DN CA3-DN CA3-DN CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12 Contactors Type LC1-F115, F150 LC1-F185, F225 LC1-F265 F330	Dele with the components listed below :     ntrol relays and plug-in control     Supply     voltage     2472 V     24240 V     24125 V     24125 V     ontactors     24240 V     220 V     240 V     220 V     240 V     220 V     240 V     220 V     240 V	relays       Comments       on 24 V: use a CA3-KN••ZD       on 24 V: use a CA3-DN••ZD       on 24 V: use a CA3-DN••ZD       Use a CA4-DN••BW       on 24 V: use an RHN•••JV       on 24 V: use an RHN•••JV       on 24 V: use an LP1-K•••JV       Coil
CA3-K CA3-K CA3-DN CA3-DN CA3-DK CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP4-K LP4-K LP4-D12 Contactors Type LC1-F115, F150 LC1-F185, F225 LC1-F265, F330	Dele with the components listed below :       ntrol relays and plug-in control       Supply       voltage       2472 V       24240 V       24240 V       24125 V       24125 V       ontactors       24240 V       24240 V       24125 V       ontactors       24240 V       220 V       240 V	relays       Comments       on 24 V: use a CA3-KN●•ZD       on 24 V: use a CA3-DN●•ZD       on 24 V: use a CA3-DN●•ZD       Use a CA4-DN●•BW       on 24 V: use an RHN-•●●JV       on 24 V: use an RHN-●●●JV       on 24 V: use an LP1-K●●●■JV       on 24 V: use an LP1-K●●●■JV       on 24 V: use an LP1-K●●●■JV       on 24 V: use an LP1-K●●●■U       Use an LP4-K●●●■BW3       on 24 V: use an LP1-D●●●■ZD       -       Use an LP4-bl2●●BW       Coil       LX4-FF220       LX4-FF250       LX4-FF220       LX4-FH220       LX4-FH220       LX4-FH250
C.C. CIFCUIT RE1-LA timers are compatit Mini-control relays, co Type CA3-K CA3-DN CA3-DK CA4-DN RHN RHK Mini-contactors and c LP1-K LP4-K LP4-K LP1-D09 to D32 LP1-D40 to D80 LP4-D12 Contactors Type LC1-F115, F150 LC1-F185, F225 LC1-F265, F330	Dele with the components listed below :       ntrol relays and plug-in control       Supply       voltage       2472 V       24240 V       24125 V       24125 V       ontactors       24240 V       24125 V       ontactors       24240 V       24 V       24240 V       24 V       24240 V       24 V       240 V       220 V       240 V       220 V       240 V       240 V       240 V       240 V	relays       Comments       on 24 V: use a CA3-KN••ZD       on 24 V: use a CA3-DN••ZD       on 24 V: use a CA3-DN••ZD       Use a CA4-DN••BW       on 24 V: use an RHN-•••JV       on 24 V: use an RHN-•••JV       on 24 V: use an LP1-K••••JV       Coil       LX4-FF220       LX4-FF250       LX4-FG250       LX4-FH220       LX4-FH250

please consult your Regional Sales Office.

### Functions and selection



Same functions as above +

Off-delay - Pulse on energisation contact with externally controlled start - Symmetrical flasher

Same functions as above +

Star Delta starting (External control of start of the timing period is not possible for the star delta starting function).

#### Additional functions

External control of starting: opening of an external contact connected to the relay starts the timing period. Closing of this contact resets the timer.
External control of partial stop of time delay: closing of an external contact connected to the relay allows the timing period to be interrupted. The time elapsed is memorised. Timing restarts as soon as the contact opens. This type of control enables the totalising function to be performed.
External adjustment of the time delay: one or more external potentiometers can be used for remote adjustment of the timing period or periods.

Solid state     RE-TA I C/O     RE-TA RE7.To RE8-TA RE7.TP     28465/2 RE7.TP       2 C/O     RE7.TM     28451/2       2 C/O     RE7.RB     28452/2       2 C/O     RE7.RL     28452/2       2 C/O     RE7.RL     28453/2       2 C/O     RE7.RL     28453/2       2 C/O     RE7.RL     28453/2       2 C/O     RE7.RA     28453/2       2 C/O     RE7.AN     28453/2       2 C/O     RE7.AN     28452/2       1 C/O     RE7.AN     28452/2       1 C/O     RE7.PP     28452/2       2 C/O     RE7.PP     28452/2       1 C/O     RE7.PP     28452/2       2 C/O     RE7.PP     28452/2       1 C/O     RE7.PP     28453/2       2 C/O     RE7.PP     28453/2       1 C/O     RE7.PP     284	Output	Multifunction relay	See pages
No.     RE7.TL or RE8-TA     PE7. 29451/2. RE8: 28462/2       2000     RE7-TM     28451/2       2010     RE7-TM     28451/2       2010     RE7-RB11 or RE8-RB     28453/2       2010     RE7-RB11 or RE8-RB     28453/2       2010     RE7-RB11 or RE8-RB     28453/2       2010     RE7-RB13     28453/2       2010     RE7-RB13     28452/2       2010     RE7-RB13     28452/2       100     RE7-MA13     28452/2       2010     RE7-RB13     28452/2       100     RE7-MA13     28452/2       100     RE7-MA13     28452/2       100     RE7-MA13     28452/2       100     RE7-PP     28451/2       200     RE7-PP     28452/2       100     RE7-PP     28452/2       100     RE7-PP     28453/2       200     RE7-PP     28453/2       200     RE7-PP     28453/2       200     RE7-CP     28453/2       200     RE7-CP     28453/2 </th <th>Solid state</th> <th></th> <th>28466/2</th>	Solid state		28466/2
I UO     REP.T     PREP.T     PREP.T     PREP.T       2 CO     REP.T     244512     244512       1 CO     REP.T     244512       2 CO     REP.T     244512       2 CO     REP.T     244512       2 CO     REP.R     244512       1 CO     REP.R     244512       1 CO     REP.R     244512       1 CO     REP.R     244512       1 CO     REP.P     244512       2 CO     REP.P     244512       2 CO     REP.PD     244512       2 CO			
2 CO     RE7-TP     28451/2       1 CO     RE7-TM     28451/2       1 CO     RE7-R1     28450/2       1 CO     RE7-R11 or RE8-R8     28450/2       1 CO     RE7-R11 or RE8-R8     28450/2       2 CO     RE7-R1     28450/2       1 CO     RE7-RA1     28450/2       1 CO     RE7-RA1     28450/2       1 CO     RE7-RA1     28450/2       1 CO     RE7-MA13     28450/2       1 CO     RE7-MA11     28450/2       1 CO     RE7-MA13     28450/2       1 CO     RE7-MA13     28450/2       1 CO     RE7-MA13     28450/2       1 CO     RE7-MA13     28450/2       1 CO     RE7-PP     28450/2       2 CO     RE7-PP     28450/2       1 CO     RE7-PP     28450/2       1 CO     RE7-PP     28450/2       1 CO     RE7-PP     28450/2       1 CO     RE7-PD     28450/2       1 CO     RE7-CD     28450/2       1 CO </th <th>1 C/O</th> <th>RE/-IL of RE8-IA</th> <th>RE7: 28451/2, RE8: 28462/2</th>	1 C/O	RE/-IL of RE8-IA	RE7: 28451/2, RE8: 28462/2
I C/O     RE7-TM     284512       Solid state     RE9-RA     294692       I C/O     RE7-RB11 or RE8-RB     284532       2 C/O     RE7-RB13     284532       2 C/O     RE7-RA13     284532       1 C/O     RE7-RA13     284522       1 C/O     RE7-RA13     284522       1 C/O     RE7-MA15     284522       1 C/O     RE7-MA15     284522       1 C/O     RE7-MA15     284522       1 C/O     RE7-MA15     284522       1 C/O     RE7-PF or RE8-PE     RE7: 28454/2, RE8: 28463/2       2 C/O     RE7-PP     2845/2       1 C/O     RE7-PF or RE8-PE     RE7: 28454/2, RE8: 28463/2       2 C/O     RE7-PP     2845/2       1 C/O     RE7-PP     2845/2       2 C/O     RE7-PP     2845/2       1 C/O     RE7-PP     2845/2       2 C/O     RE7-CP     2845/2       2 C/O     RE7-CP     2845/2       2 C/O     RE7-CP     2845/2       2 C/O     RE7-CP	2 C/O	RE7-TP	28451/2
Solid state     REF.RDI to RES.RB     264502       1 00     REF.RDI to RES.RB     PEF.134532, RES.20462/2       2 00     REF.RBI to RES.RB     264532       1 00     REF.RBI to RES.RB     264532       2 00     REF.RBI to RES.RB     264532       1 00     REF.RBI to RES.RB     264532       2 00     REF.MAI1     264532       1 00     REF.MAI1     264532       2 00     REF.PD     26454/2       2 00     REF.PD     26454/2       2 00     REF.PD     26454/2       2 00     REF.PD     26454/2       2 00     REF.PD     264532       1 00     REF.OP     26453/2       2 00     REF.OP     26453/2       2 00     REF.OP     26453/2       2 00     REF.OP     26453/2       2 00 <th>1 C/O</th> <th>RE7-TM</th> <th>28451/2</th>	1 C/O	RE7-TM	28451/2
Solid state     REP-RA RET-RB1 or RES-RB 2 C/O     28468/2 RET-RB1 or RES-RB 2 C/O     RET-RB RET-28453/2 2 ASS2       2 C/O     RET-RL 1 C/O     RET-RL RET-RL 2 ASS2     28453/2 2 ASS2       2 C/O     RET-RL 1 C/O     RET-RL RET-MA11     28453/2 2 ASS2       2 C/O     RET-MA13     28453/2 2 ASS2       1 C/O     RET-MA11     28453/2 2 ASS2       1 C/O     RET-MA11     28453/2 2 ASS2       1 C/O     RET-PL or RES-PE     RET-28454/2, RES. 28463/2 2 C/O       1 C/O     RET-PP     28453/2       1 C/O     RET-PP     28454/2       2 C/O     RET-PP     28453/2       1 C/O     RET-PP     28453/2       2 C/O     RET-PD     28453/2       1 C/O     RET-PD     28453/2       2 C/O     RET-YG     28455/2       2 C/O     RET-YG MRET-YR </th <th></th> <th></th> <th>2010/12</th>			2010/12
Solid state     REP.RA 1 C/O     REP.R1 REP.R1 or REP.RB REP.R1 or REP.RB REP.R1 3     28469/2 2453/2, REP. 28469/2       2 C/O     REP.R13     28453/2       2 C/O     REP.M11     28453/2       2 C/O     REP.PE     REP.22       1 C/O     REP.PE     REF.28463/2       2 C/O     REP.PD     28453/2       2 C/O     REP.PD     28453/2       2 C/O     REF.PD     28453/2       2 C/O     REF.PM     28453/2 <td< th=""><th></th><th></th><th></th></td<>			
Solid state     RE-RA I C/O     RE-RA RE-REI1 or REB-RB 20/0     REF.REI RE-RL 2453/2     24543/2 2453/2       2 C/O     RE-RA I C/O     RE-RA RE-RA I C/O     2453/2     2453/2       1 C/O     RE-RA I C/O     RE-RA RE-RA I C/O     2452/2       1 C/O     RE-RA I C/O     2452/2       1 C/O     RE-RA I C/O     2452/2       1 C/O     RE-RA RE-RA I C/O     2452/2       1 C/O     RE-RA RE-PT     2452/2       1 C/O     RE-PT     2453/2       2 C			
Beld state     REP-RA 1 C/O     REP-RA REP-RA REP-RA 24332     Defense REP-RA 24332     Defense REP-RA 24332       200     REP-RA REP-RA 100     294322     1000     REP-RA REP-RA 244522     244522       1 C/O     REP-RA REP-MA11     284522     1000     REP-RA REP-MA11     284522       1 C/O     REP-MA11     284522     1000     REP-RA REP-MA11     284522       1 C/O     REP-MA11     284522     1000     REP-RA REP-PE     REF: 284542       1 C/O     REF-PE or REB-PE     REF: 284542     REF: 284542     284542       1 C/O     REP-PT     284542     284542     1000       2 C/O     REP-PD     284542     1000     REP-PD     284542       1 C/O     REF-PM     284542     1000     REF-PA     284542       1 C/O     REF-VA     284542     1000     REF-VA     284542       1 C/O     REF-VA     284542     1000     REF-VA     284542       1 C/O     REF-VA     284542     1000     REF-VA     284542       1 C/O     REF			
I C/O   REF-RB11 or REB-RB   REF: 28453/2     2 C/O   REF-RL   28453/2     2 C/O   REF-RA 13   28453/2     1 C/O   REF-RA and REF-RM   28453/2     1 C/O   REF-RA and REF-RM   28453/2     2 C/O   REF-MA and REF-RM   28453/2     1 C/O   REF-MA and REF-RM   28452/2     1 C/O   REF-MA11   28452/2     1 C/O   REF-PE or REB-PE   REF: 28454/2, RE8: 28463/2     2 C/O   REF-PP   28454/2     1 C/O   REF-PP   28454/2     2 C/O   REF-PP   28454/2     1 C/O   REF-PP   28454/2     1 C/O   REF-PP   28454/2     1 C/O   REF-PD   28454/2     1 C/O   REF-PD   28454/2     1 C/O   REF-CL or REB-CL   REF: 28462/2     1 C/O   REF-VP   28459/2     1 C/O   REF-VP   28459/2     1 C/O   REF-VG   28459/2     1 C/O   REF-VG   28459/2     1 C/O   REF-VG   28459/2     1 C/O   REF-VG	Solid state	RE9-RA	28466/2
2 C/O     RE7-RL     284532       2 C/O     RE7-RB13     284532       1 C/O     RE7-RA and RE7-RM     284532       1 C/O     RE7-MA 13     284532       2 C/O     RE7-MA 13     284532       1 C/O     RE7-MA13     284522       1 C/O     RE7-MA11     284522       1 C/O     RE7-MA11     284522       1 C/O     RE7-MV     284522       1 C/O     RE7-PP     284522       1 C/O     RE7-PP     284542       2 C/O     RE7-PP     284542       1 C/O     RE7-PP     284542       2 C/O     RE7-PD     284542       1 C/O     RE7-CL or RE8-VE     RE7-284552, RE8: 28462/2       1 C/O     RE7-VP     284552       1 C/O     RE7-VP     284552	1 C/O	RE7-RB11 or RE8-RB	RE7: 28453/2, RE8: 28462/2
Image: Problem 1     Problem 2	2 C/O	RE7-RL	28453/2
COO     REF-RA     224422       1 COO     RE7-RA and RE7-RM     284532       2 C/O     RE7-MA13     294532       1 C/O     RE7-MA11     294522       1 C/O     RE7-MV     294522       1 C/O     RE7-PP     284532       2 C/O     RE7-PP     284532       1 C/O     RE7-PP     284532       2 C/O     RE7-PP     284532       1 C/O     RE7-PP     284532       2 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-QP     28453/2       1 C/O     RE7-QP     28453/2       2 C/O     RE7-QP     28453/2       1 C/O     RE7-QP     28453/2       2 C/O     RE7-YG     28453/2	2 C/O	RE7-RB13	28/53/2
ICO     REP-RA and RE7-RM     20462/2       ICO     RE7-MA11     28452/2       ICO     RE7-MY     28452/2       ICO     RE7-PE     RE7.28454/2, RE8: 28463/2       ICO     RE7-PP     28453/2       ICO     RE7-PD     28453/2       ICO     RE7-CL or RE8-CL     RE7-28455/2, RE8: 28462/2       ICO     RE7-CV     28453/2       ICO     RE7-VP     28453/2       ICO     RE8-YG     28453/2       ICO     RE8-YG     28453/2       INC + NO     RE8-YA     28456/2	 2 0/0		20400/2
Image: Color Problem     Image: Co	10/0	REO-RA	28462/2
Image: Constraint of the second sec	1 C/O	RE7-RA and RE7-RM	28453/2
2 C/O     RE7-MA13     28452/2       1 C/O     RE7-MA11     28452/2       1 C/O     RE7-MV     28452/2       1 C/O     RE7-PMV     28452/2       1 C/O     RE7-PE     RE7:28454/2, RE8: 28463/2       2 C/O     RE7-PP     28453/2       1 C/O     RE7-PP     28453/2       2 C/O     RE7-PP     28453/2       1 C/O     RE7-PP     28453/2       2 C/O     RE7-PD     28453/2       1 C/O     RE7-PD     28453/2       2 C/O     RE7-PD     28453/2       1 C/O     RE7-CL or RE8-CL     RE7-28455/2, RE8: 28462/2       2 C/O     RE7-CL or RE8-CL     28453/2       2 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28455/2       2 C/O     RE7-YA and RE7-YR     28453/2       2 C/O     RE7-YA and RE7-YR     28453/2       2 C/O     RE5-YA     28453/2       2 C/O     RE5-YA     28453/2       2 C/O     RE5-YA     28453/2       2 C/O     RE5-YA			
100     RE7-MA13     28452/2       100     RE7-MA11     28452/2       100     RE7-MV     28452/2       100     RE7-MV     28452/2       100     RE7-PE or RE8-PE     RE7: 28454/2, RE8: 28463/2       200     RE7-PP     28454/2       100     RE7-PF or RE8-PE     RE7: 28454/2, RE8: 28463/2       200     RE7-PP     28454/2       100     RE7-PP     28454/2       100     RE7-PM     28454/2       100     RE7-PM     28454/2       100     RE7-PM     28453/2       100     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       100     RE7-CV     28453/2       100     RE7-CV     28453/2       100     RE7-YA     28453/2       100     RE7-YA     28453/2       100     RE8-YA     28453/2       100     RE8-YA     28453/2       100     RE8-YA     28453/2       100     RE8-YA     28453/2       1000     RE8-YA     28453/2			
ICIO     RE7-MA11     284522       ICIO     RE7-MV     284522       ICIO     RE7-PV     284522       ICIO     RE7-PE or RE8-PE     RE7: 28454/2, RE6: 28463/2       ICIO     RE7-PD     28454/2       ICIO     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       ICIO     RE7-CP     28455/2       ICIO     RE7-CV     28455/2       ICIO     RE7-YG     28455/2       ICIO     RE8-YG     28463/2       ICIO     RE8-YG     28463/2       ICIO     RE8-YG     28463/2       ICIO     RE8-YG     28463/2       ICIO     RE8-YG     28463/2 <tr< th=""><th>2 C/O</th><th>RE7-MA13</th><th>28452/2</th></tr<>	2 C/O	RE7-MA13	28452/2
ICO     REF.MATI     28452/2       1 C/O     RE7-PE or RE8-PE     RE7: 28454/2, RE8: 28463/2       2 C/O     RE7-PP     28453/2       1 C/O     RE7-PD     28453/2       2 C/O     RE7-PD     28453/2       1 C/O     RE7-PD     28453/2       1 C/O     RE7-PD     28453/2       2 C/O     RE7-PD     28453/2       1 C/O     RE7-PD     28453/2       1 C/O     RE7-PD     28453/2       1 C/O     RE7-OP     28453/2       1 C/O     RE7-OP     28455/2       1 C/O     RE7-OP     28455/2       1 C/O     RE7-VY     28455/2       1 C/O     RE7-VY     28455/2       1 C/O     RE7-VY     28455/2       1 C/O     RE8-YG     28463/2       1 C/O     RE5-YA and RE7-YR     28463/2       1 N/C + N/O     RE5-YA     28463/2       0 utput     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	1 0/0	DE7 MA44	20452/2
Image: Constraint of the second sec	10/0	RE/-WATT	28432/2
I. C/O     RE7-WV     28452/2       1. C/O     RE7-PE or RE8-PE     RE7: 28454/2, RE6: 28463/2       2. C/O     RE7-PP     28453/2       1. C/O     RE7-PD     28453/2       2. C/O     RE7-PD     28453/2       1. C/O     RE7-PD     28453/2       1. C/O     RE7-PD     28453/2       1. C/O     RE7-PD     28453/2       1. C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2. C/O     RE7-CP     28455/2       1. C/O     RE7-CP     28455/2       1. C/O     RE7-CV     28455/2       1. C/O     RE7-CV     28455/2       1. C/O     RE7-VG     28453/2       2. C/O     RE7-VG     28453/2       1. C/O     RE8-YG     28463/2       1. N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2			
1 C/O     RE7-PE or RE8-PE     RE7: 28454/2, RE8: 28463/2       2 C/O     RE7-PP     28454/2       1 C/O     RE7-PD     28454/2       2 C/O     RE7-PD     28454/2       1 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-VP     28455/2       1 C/O     RE7-VP     28455/2       1 C/O     RE7-VP     28455/2       1 C/O     RE7-YA and RE7-YR     28463/2       2 C/O     RE7-YA and RE7-YR     28463/2       2 C/O     RE7-YA and RE7-YR     28463/2       2 C/O     RE8-YA     28463/2       2 C/O     RE8-YA     28463/2       2 C/O <t< th=""><th>1 C/O</th><th>RE7-MV</th><th>28452/2</th></t<>	1 C/O	RE7-MV	28452/2
Image: Constraint of the sector of the sector in			
Image: Constraint of the second sec			
1 C/O     RE7-PE or RE8-PE     RE7: 28454/2, RE8: 28463/2       2 C/O     RE7-PP     28454/2       1 C/O     RE9-PT     28454/2       2 C/O     RE7-PD     28454/2       1 C/O     RE7-PD     28454/2       1 C/O     RE7-PD     28454/2       1 C/O     RE7-PM     28454/2       1 C/O     RE7-PM     28454/2       1 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-YA and RE7-YR     28463/2       2 C/O     RE7-YA and RE7-YR     28463/2       1 N/C + N/O     RE8-YG     28463/2       2 Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2			
1 C/O     RET-PE or RE3-PE     RE7: 28454/2, RE3: 28463/2       2 C/O     RE7-PD     28454/2       1 C/O     RE3-PT     28454/2       2 C/O     RE7-PD     28454/2       1 C/O     RE7-PD     28454/2       1 C/O     RE7-PM     28454/2       1 C/O     RE7-PM     28454/2       1 C/O     RE7-CL or RE3-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-YG     28455/2       1 C/O     RE7-YG     28455/2       1 C/O     RE7-YG     28455/2       1 C/O     RE7-YA and RE7-YR     28456/2       2 C/O     RE7-YA and RE7-YR     28456/2       1 N/C + N/O     RE3-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	 		
2 C/O     RE7-PP     28454/2       2 C/O     RE7-PD     28453/2       2 C/O     RE7-PD     28454/2       1 C/O     RE7-PM     28454/2       1 C/O     RE7-CP     28454/2       1 C/O     RE7-CP     28455/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CP     28455/2       2 C/O     RE7-CV     28455/2       1 C/O     RE7-VG     28455/2       1 C/O     RE7-YG     28455/2       1 C/O     RE7-YA and RE7-YR     28456/2       1 N/C + N/O     RE8-YG     28463/2       C/O     RE7-YA and RE7-YR     28456/2       1 N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	1 C/O	RE7-PE or RE8-PE	RE7: 28454/2, RE8: 28463/2
Image: Constraint of the sector of	2 C/O	RE7-PP	28454/2
I     C/O     RE8-PT     28463/2       2     C/O     RE7-PD     28454/2       1     C/O     RE7-PM     28454/2       1     C/O     RE7-PM     28453/2       1     C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2     C/O     RE7-CP     28455/2       1     C/O     RE7-CV     28455/2       1     C/O     RE7-CV     28455/2       2     C/O     RE7-V     28455/2       1     C/O     RE7-V     28455/2       1     C/O     RE7-YG     28463/2       2     C/O     RE7-YA and RE7-YR     28456/2       1     N/C + N/O     RE8-YG     28463/2       1     N/C + N/O     RE8-YA     28463/2       0utput     Multifunction relay     See pages       Solid state     RE9-MS     28467/2			
1 C/O     RE8-PT     28463/2       2 C/O     RE7-PD     28454/2       1 C/O     RE7-PM     28454/2       1 C/O     RE8-PD     28463/2       1 C/O     RE7-PM     2845/2       2 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-YG     28455/2       1 C/O     RE7-YG     28455/2       1 C/O     RE7-YG     28455/2       1 C/O     RE7-YA and RE7-YR     28456/2       1 N/C + N/O     RE8-YG     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2			
1 C/O     RE8-PT     28463/2       2 C/O     RE7-PD     28454/2       1 C/O     RE7-PM     28454/2       1 C/O     RE7-PM     28463/2       1 C/O     RE7-PM     28463/2       1 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-V     28463/2       2 C/O     RE7-V     28455/2       1 C/O     RE7-V     28455/2       2 C/O     RE7-V     28455/2       1 C/O     RE8-YG     28463/2       2 C/O     RE7-YA and RE7-YR     28456/2       1 N/C + N/O     RE8-YA     28456/2       2 Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2			
2 C/O     RE7-PD     28454/2       1 C/O     RE7-PM     28454/2       1 C/O     RE8-PD     28463/2       1 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-V     28455/2       1 C/O     RE7-V     28455/2       1 C/O     RE7-V     28455/2       1 C/O     RE7-YR     28455/2       1 C/O     RE7-YA and RE7-YR     28455/2       2 C/O     RE7-YA and RE7-YR     28463/2       1 N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	1 C/O	RE8-PT	28463/2
1 C/O     RE7-PM     28454/2       1 C/O     RE8-PD     28463/2       1 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-YA     28463/2       1 C/O     RE7-YA and RE7-YR     28463/2       2 C/O     RE7-YA     28463/2       1 N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	2 C/O	RE7-PD	28454/2
I C/O     REF-PD     28463/2       I C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       I C/O     RE7-CP     28455/2       I C/O     RE7-CP     28455/2       I C/O     RE7-CP     28455/2       I C/O     RE7-CV     28455/2       I C/O     RE7-CV     28455/2       I C/O     RE7-YA and RE7-YR     28456/2       I C/O     RE8-YG     28456/2       I C/O     RE8-YG     28456/2       I C/O     RE7-YA and RE7-YR     28456/2       I N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	1 C/O	RE7-PM	28/15/2
I C/O     REF-D     26463/2       1 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-YG     28463/2       2 C/O     RE7-YA     28463/2       1 C/O     RE8-YG     28463/2       2 C/O     RE7-YA and RE7-YR     28456/2       1 N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	 1 0/0		20402/2
1 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-YG     28463/2       2 C/O     RE7-YG     28463/2       1 C/O     RE7-YA and RE7-YR     28463/2       1 N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	10/0	RE0-PD	20403/2
I     C/O     RE7-CL or RE8-CL     RE7: 28455/2       I     C/O     RE7-CP     28455/2       I     C/O     RE7-CV     28455/2       I     C/O     RE7-YA     28463/2       I     N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2			
I     C/O     RE7-CL or RE8-CL     RE7: 28455/2       I     C/O     RE7-CP     28455/2       I     C/O     RE7-CV     28455/2       I     C/O     RE7-YA     28455/2       I     C/O     RE7-YA and RE7-YR     28455/2       I     N/C + N/O     RE8-YA     28456/2       I     N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2			
1 C/O     RE7-CL or RE8-CL     RE7: 28455/2, RE8: 28462/2       2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-YA and RE7-YR     28463/2       2 C/O     RE7-YA and RE7-YR     28456/2       1 N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2			
2 C/O     RE7-CP     28455/2       1 C/O     RE7-CV     28455/2       1 C/O     RE7-CV     28463/2       2 C/O     RE7-YA and RE7-YR     28463/2       1 N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	1 C/O	RE7-CL or RE8-CL	RE7: 28455/2, RE8: 28462/2
I     C/O     RE7-CV     28455/2       1     C/O     RE8-YG     28463/2       2     C/O     RE7-YA and RE7-YR     28456/2       1     N/C + N/O     RE8-YA     28463/2       Output     Multifunction relay     See pages       Solid state     RE9-MS     28467/2	2 C/O	RE7-CP	28455/2
1 C/O RE7-CV 28455/2   1 C/O RE8-YG 28463/2   2 C/O RE7-YA and RE7-YR 28456/2   1 N/C + N/O RE8-YA 28463/2   Output Multifunction relay See pages   Solid state RE9-MS 28467/2			
1 C/O RE8-YG 28463/2   2 C/O RE7-YA and RE7-YR 28456/2   1 N/C + N/O RE8-YA 28463/2   Output Multifunction relay See pages   Solid state RE9-MS 28467/2	1 C/O	RE7-CV	28455/2
1 C/O   RE8-YG   28463/2     2 C/O   RE7-YA and RE7-YR   28456/2     1 N/C + N/O   RE8-YA   28463/2     Output   Multifunction relay   See pages     Solid state   RE9-MS   28467/2	10,0		20100/2
1 C/O   RE8-YG   28463/2     2 C/O   RE7-YA and RE7-YR   28456/2     1 N/C + N/O   RE8-YA   28463/2     Output   Multifunction relay   See pages     Solid state   RE9-MS   28467/2			
1 C/O   RE8-YG   28463/2     2 C/O   RE7-YA and RE7-YR   28456/2     1 N/C + N/O   RE8-YA   28463/2     Output   Multifunction relay   See pages     Solid state   RE9-MS   28467/2			
1 C/O RE8-YG 28463/2   2 C/O RE7-YA and RE7-YR 28456/2   1 N/C + N/O RE8-YA 28463/2     Output Multifunction relay See pages   Solid state RE9-MS 28467/2			
2 C/O RE7-YA and RE7-YR 28456/2   1 N/C + N/O RE8-YA 28463/2   Output Multifunction relay See pages   Solid state RE9-MS 28467/2	1 C/O	RE8-YG	28463/2
1 N/C + N/O RE8-YA 28463/2   Output Multifunction relay See pages   Solid state RE9-MS 28467/2	2 C/O	RE7-YA and RE7-YR	28456/2
Output Multifunction relay See pages   Solid state RE9-MS 28467/2	1 N/C + N/O	RE8-YA	28463/2
Output Multifunction relay See pages   Solid state RE9-MS 28467/2			
Solid state RE9-MS 28467/2	 Output	Multifunction relay	See pages
Solid state RE9-MS 28467/2			

RE7-ML

RE7-MY13MW RE7-MY13BU

1 C/O

2 C/O 2 C/O

Telemecanique 28460/3

28457/2

28457/2 28457/2