



## Main

Range	EasyPact
Product name	EasyPact TVR
Product or component type	Contacteur
Device short name	LC1R
Contacteur application	Resistive load Motor control Reversing
Utilisation category	AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ie] rated operational current	20 A (at <math>\leq 40\text{ }^\circ\text{C}</math>) at <math>\leq 400\text{ V AC}</math> AC-1 for power circuit 9 A (at <math>\leq 40\text{ }^\circ\text{C}</math>) at <math>\leq 400\text{ V AC}</math> AC-3 for power circuit
[Uc] control circuit voltage	24 V AC 50 Hz
Auxiliary contact composition	1 NC
[Ue] rated operational voltage	Power circuit: 690 V AC 50 Hz Signalling circuit: 690 V AC 50 Hz

## Complementary

Motor power kW	2.2 KW at 220/230 V AC 50 Hz 4 KW at 380/400 V AC 50 Hz 5.5 kW at 660/690 V AC 50 Hz
Electrical durability	1 Mcycles 9 A AC-3 at $U_e \leq 440\text{ V}$
Mechanical durability	10 Mcycles
Maximum operating rate	1200 cyc/h 40 °C
Operating time	12...22 ms closing 4...19 ms opening
Control circuit voltage limits	Operational: 0.85...1.1 Uc Drop-out: 0.2...0.75 Uc
Hold-in power consumption in VA	8.3 VA cos phi 0.3
[Ith] conventional free air thermal current	20 A (at 40 °C) for power circuit 10 A (at 40 °C) for signalling circuit
Average impedance	2.5 mOhm - Ith 20 A 50 Hz for power circuit
Power dissipation per pole	AC-3: 0.2 W AC-1: 1.56 W
Heat dissipation	2...3 W at 50 Hz
Irms rated making capacity	108 A 380 V AC power circuit AC-3 IEC 60947 108 A 380 V AC power circuit AC-3 GB 14048
Rated breaking capacity	90 A at 380 V for power circuit AC-3 conforming to IEC 60947 90 A at 380 V for power circuit AC-3 conforming to GB 14048
[Icw] rated short-time withstand current	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 105 A 40 °C - 10 s for power circuit 61 A 40 °C - 1 min for power circuit 30 A 40 °C - 10 min for power circuit

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Associated fuse rating	20 A gG at ≤ 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Overvoltage category	III
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to GB 14048.4
Coil technology	Without built-in suppressor module
Auxiliary contacts type	Type mirror contact 1 NC conforming to IEC 60947-4-1 Type mechanically linked 1 NC conforming to IEC 60947-5-1
Signalling circuit frequency	50 Hz
Minimum switching current	5 mA for signalling circuit
Switching voltage	17 V for signalling circuit
Non-overlap time	1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Insulation resistance	> 10 MOhm for signalling circuit
Mounting support	Rail Plate
Connections - terminals	Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - external diameter: 8 mm - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - external diameter: 8 mm - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - external diameter: 8 mm - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - external diameter: 8 mm - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - external diameter: 8 mm - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - external diameter: 8 mm - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end
Tightening torque	Power circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm M3.5 Power circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 M3.5 Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2
Height	74 mm
Width	45 mm
Depth	80 mm
Standards	GB 14048.4 IEC 60947-1 IEC 60947-4-1 GB 14048.1
Product certifications	CCC

## Environment

Pollution degree	3
Protective treatment	TH conforming to IEC 60068-2-30
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-40...60 °C
Permissible ambient air temperature around the device	-20...55 °C at U <sub>c</sub>
Operating altitude	2000 m without derating

Fire resistance	850 °C conforming to IEC 60695-2-11
Mechanical robustness	Vibrations contactor open (1.2 gn, 5...300 Hz) conforming to IEC 60068-2-6 Vibrations contactor closed (2.5 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Shocks 11 ms contactor open (5 gn) conforming to IEC 60068-2-27 Shocks 11 ms contactor closed (8 gn) conforming to IEC 60068-2-27

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.5 cm
Package 1 Width	8 cm
Package 1 Length	7.4 cm
Package 1 Weight	290 g

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins