

## Main

Range of product	TeSys K
Range	TeSys
Product name	TeSys K
Product or component type	Reversing contactor
Device short name	LC2K
Device application	Control
Contactor application	Motor control
Utilisation category	AC-3 AC-4
Device presentation	Preassembled with reversing power busbar
Poles description	3P
Pole contact composition	3 NO
System Voltage	690 V AC 50/60 Hz power circuit $\leq$ 690 V AC 50/60 Hz signalling circuit
[Ie] rated operational current	6 A at $\leq$ 440 V AC AC-3 power circuit
Motor power kW	3 kW at 440 V AC 50/60 Hz 3 kW at 500...600 V AC 50/60 Hz 3 kW at 660...690 V AC 50/60 Hz 1.5 kW at 220...230 V AC 50/60 Hz 2.2 kW at 380...415 V AC 50/60 Hz 3 kW at 480 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	110 V AC 50/60 Hz
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A at $\leq$ 122 °F (50 °C) power circuit 10 A at $\leq$ 122 °F (50 °C) signalling circuit
Irms rated making capacity	110 A AC power circuit conforming to NF C 63-110

	110 A AC power circuit conforming to IEC 60947 110 A AC signalling circuit conforming to IEC 60947
Rated breaking capacity	110 A at 415 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 220...230 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947
[Icw] rated short-time withstand current	20 A $\leq 50\text{ }^{\circ}\text{C} \geq 15$ min power circuit 90 A $\leq 122\text{ }^{\circ}\text{F}$ (50 $^{\circ}\text{C}$ ) 1 s power circuit 85 A $\leq 122\text{ }^{\circ}\text{F}$ (50 $^{\circ}\text{C}$ ) 5 s power circuit 80 A $\leq 122\text{ }^{\circ}\text{F}$ (50 $^{\circ}\text{C}$ ) 10 s power circuit 60 A $\leq 122\text{ }^{\circ}\text{F}$ (50 $^{\circ}\text{C}$ ) 30 s power circuit 45 A $\leq 122\text{ }^{\circ}\text{F}$ (50 $^{\circ}\text{C}$ ) 1 min power circuit 40 A $\leq 122\text{ }^{\circ}\text{F}$ (50 $^{\circ}\text{C}$ ) 3 min power circuit 80 A 1 s signalling circuit 90 A 500 ms signalling circuit 110 A 100 ms signalling circuit
Associated fuse rating	25 A gG at $\leq 440$ V power circuit 25 A aM power circuit 10 A gG signalling circuit conforming to IEC 60947 10 A gG signalling circuit conforming to VDE 0660
Average impedance	3 mOhm at 50 Hz - Ith 20 A power circuit
[Ui] rated insulation voltage	690 V signalling circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-5-1 600 V signalling circuit conforming to UL 508 600 V power circuit conforming to CSA C22.2 No 14 600 V signalling circuit conforming to CSA C22.2 No 14 690 V power circuit conforming to IEC 60947-4-1 600 V power circuit conforming to UL 508
Electrical durability	1.3 Mcycles 6 A AC-3 at $U_e \leq 440$ V
Interlocking type	Mechanical
Mounting support	Plate Rail
Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA UL
Connections - terminals	Screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> ) - cable stiffness: solid Screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0...0 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> ) - cable stiffness: solid Screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0...0 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end
Tightening torque	11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver Philips No 2 11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver flat $\varnothing$ 6 mm
Operating time	10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	5 Mcycles
Operating rate	3600 cyc/h

## Complementary

Control circuit voltage limits	0.2...0.75 $U_c$ at $\leq 122\text{ }^{\circ}\text{F}$ (50 $^{\circ}\text{C}$ ) drop-out 0.8...1.15 $U_c$ at $\leq 122\text{ }^{\circ}\text{F}$ (50 $^{\circ}\text{C}$ ) operational
Inrush power in VA	30 VA at 68 $^{\circ}\text{F}$ (20 $^{\circ}\text{C}$ )
Hold-in power consumption in VA	4.5 VA at 68 $^{\circ}\text{F}$ (20 $^{\circ}\text{C}$ )
Heat dissipation	1.3 W
Auxiliary contacts type	Type instantaneous 1 NO
Signalling circuit frequency	$\leq 400$ Hz

Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Non overlap distance	0.02 in (0.5 mm)
Insulation resistance	> 10 MOhm signalling circuit
Compatibility code	LC2K
Power range	0.55...1 kW 200...240 V 3 phases 0.55...1 kW 380...440 V 3 phases 0.55...1 kW 480...500 V 3 phases 1.1...2 kW 200...240 V 3 phases 1.1...2 kW 380...440 V 3 phases 2.2...3 kW 380...440 V 3 phases 2.2...3 kW 480...500 V 3 phases 0...0.5 kW 200...240 V 3 phases 0...0.5 kW 380...440 V 3 phases 0...0.5 kW 480...500 V 3 phases 1.1...2 kW 480...500 V 3 phases
Motor starter type	Reversing contactor
Contactor coil voltage	110 V AC standard


## Environment

IP degree of protection	IP20 conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
Ambient air temperature for operation	-13...122 °F (-25...50 °C)
Ambient air temperature for storage	-58...176 °F (-50...80 °C)
Operating altitude	6561.68 ft (2000 m) without derating derating in temperature
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
Mechanical robustness	Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6
Height	2.28 in (58 mm)
Width	3.54 in (90 mm)
Depth	2.24 in (57 mm)
Product weight	0.86 lb(US) (0.39 kg)

## Ordering and shipping details

Category	22327 - CTR,K-LINE,AC,OPEN,REV
Discount Schedule	I12
GTIN	00785901913849
Nbr. of units in pkg.	1
Package weight(Lbs)	0.8000000000000004
Returnability	Y
Country of origin	FR

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0706 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available

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Product end of life instructions	Available
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**Contractual warranty**

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Warranty period	18 months
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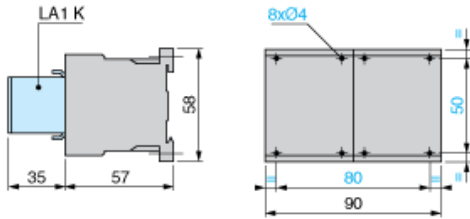
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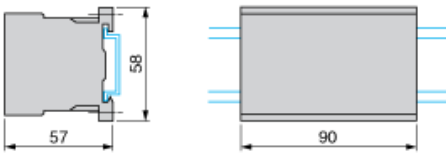
Dimensions

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Reversing Contactors LC2 K, LP2 K, LP5 K: Mounting on Panel

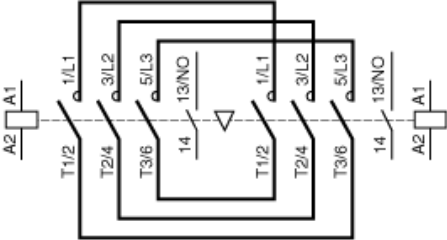


Reversing Contactors LC2 K, LP2 K, LP5 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)

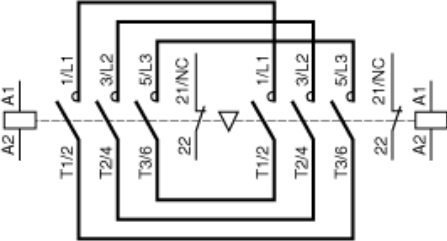


Wiring

3-Pole Reversing Contactors with Screw Clamp Connections: 3P + N/O



3-Pole Reversing Contactors with Screw Clamp Connections: 3P + N/C



Our Proposal - Type 1 : Circuit Breaker + Contactor for Motor Power from 0,06 to 2,2 kW and 415 VAC

Motor power (kW)	ICU (kA)	Breaker	Contactor (*)
0.06	> 100	 GV2ME02	 LC2K0610F7
0.09	> 100	 GV2ME03	 LC2K0610F7
0,12 to 0,18	> 100	 GV2ME04	 LC2K0610F7
0,25 to 0,37	> 100	 GV2ME05	 LC2K0610F7
0.55	> 100	 GV2ME06	 LC2K0610F7
0.75	> 100	 GV2ME07	 LC2K0610F7
1,1 to 1,5	> 100	 GV2ME08	 LC2K0610F7
2.2	> 100	 GV2ME10	 LC2K0610F7

Non contractual pictures.

Type 1 coordination requires that in a short-circuit condition, the contactor or starter must not present any danger to personnel or installations and must not be able to resume operation without repair or the replacement of parts.