

# Contactor, TeSys K, 3P, AC-3, It or eq to 440V 9A, 1 NO aux., 24VAC coil

LC1K0910B7

Product availability: Stock - Normally stocked in distribution facility

### Main

Range	TeSys
Product or Component Type	Contactor
Device short name	LC1K
Device Application	Control
Contactor application	Motor control Resistive load

# Complementary

Utilisation category	AC-3	
	AC-3e	
	AC-1	
	AC-4	
Poles description	3P	
power pole contact composition	3 NO	
[Ue] rated operational voltage	Power circuit <= 690 V AC <= 400 Hz	
	Signalling circuit <= 690 V AC <= 400 Hz	
[le] rated operational current	9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit	
	9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
	20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	24 V AC 50/60 Hz	
Motor power kW	2.2 kW 220230 V AC 50/60 Hz AC-3	
	4 kW 380415 V AC 50/60 Hz AC-3	
	4 kW 440/690 V AC 50/60 Hz AC-3	
	2.2 kW 220230 V AC 50/60 Hz AC-3e	
	4 kW 380415 V AC 50/60 Hz AC-3e	
	4 kW 440/690 V AC 50/60 Hz AC-3e	
	2.2 kW 220230 V AC 50/60 Hz AC-4	
	4 kW 380415 V AC 50/60 Hz AC-4	
	4 kW 440/690 V AC 50/60 Hz AC-4	
Auxiliary contact composition	1 NO	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[Ith] conventional free air thermal	20 A (at 140 °F (60 °C)) for power circuit	
current	10 A (at 122 °F (50 °C)) for signalling circuit	
Irms rated making capacity	110 A AC for power circuit conforming to IEC 60947	
	110 A AC for signalling circuit conforming to IEC 60947	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

110 A at 330400 V conforming to IEC 60947   10 A at 4410 V conforming to IEC 60947   10 A at 4410 V conforming to IEC 60947   10 A at 4401 V conforming to IEC 60947   10 A at 4600690 V conforming to IEC 60947   10 A at 600690 V conforming to IEC 60947   10 A at 600690 V conforming to IEC 60947   10 A t 600690 V conforming to IEC 60947   10 A t 600690 V conforming to IEC 60947   10 A t 600690 V conforming to IEC 60947   10 A t 600690 V conforming to IEC 60947   10 A t 22 F (50°C) - 10 is for power circuit 85 A 122 F (50°C) - 10 is for power circuit 85 A 122 F (50°C) - 10 is for power circuit 40 A 122 F (50°C) - 10 in for power circuit 40 A 122 F (50°C) - 10 in in for power circuit 40 A 122 F (50°C) - 10 in in for power circuit 40 A 122 F (50°C) - 10 in in for power circuit 80 A - 1 is for signalling circuit 10 A - 100 ms for signalling circuit 10 A - 100 ms for signalling circuit 10 A - 100 ms for signalling circuit 10 A gG for signalling circuit 10 A gG for signalling circuit 10 A gG for signalling circuit conforming to IEC 60947   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit conforming to VDE 0660   10 A gG for signalling circuit   10 A gG for Sign			
110 A at 440 V conforming to IEC 60947   110 A at 450 V conforming to IEC 60947   80 A at 500 V conforming to IEC 60947   80 A at 500 V conforming to IEC 60947   81 A at 500 V conforming to IEC 60947   82 A at 500 V conforming to IEC 60947   83 A 122°F (30°C) - 1 s for power circuit	Rated breaking capacity		
80 A at 500 V conforming to LEC 60947		· · · · · · · · · · · · · · · · · · ·	
70 A at 860990 V conforming to IEC 60947		· · · · · · · · · · · · · · · · · · ·	
85 A 122 F (50 °C) - 5 is for power circuit   80 A 122 F (50 °C) - 10 is for power circuit   80 A 122 F (50 °C) - 10 is for power circuit   80 A 122 F (50 °C) - 30 is for power circuit   80 A 122 F (50 °C) - 3 min for power circuit   40 A 122 F (50 °C) - 3 min for power circuit   80 A - 15 for signalling circuit   110 A - 100 ms for signalling circuit   110 A - 100 ms for signalling circuit   10 A (50 for signalling circuit conforming to IEC 60947   10 A (50 for signalling circuit conforming to VEC 6060   Average impedance   3 mOhm - 1lh 20 A 50 Hz for power circuit   10 A (50 for signalling circuit conforming to VEC 6060   Average impedance   3 mOhm - 1lh 20 A 50 Hz for power circuit   10 mush power in VA   30 VA (at 68 °F (20 °C))   10 mush power in VA   30 VA (at 68 °F (20 °C))   11 Hold-In power consumption in VA   4.5 VA (at 68 °F (20 °C))   12 Heat dissipation   1.3 W   13 Control circuit voltage limits   Operational: 0.81.15 Uc (at <122 °F (50 °C))   13 Connections - terminals   Operational: 0.81.15 Uc (at <122 °F (50 °C))   14 Connections - terminals   Operational: 0.81.15 Uc (at <122 °F (50 °C))   15 Connections - terminals   Operational: 0.81.15 Uc (at <122 °F (50 °C))   16 Connections - terminals   Operational: 0.81.15 Uc (at <122 °F (50 °C))   17 Connections - terminals   Operational: 0.81   Operational: 0.8.		70 A at 660690 V conforming to IEC 60947	
99 A 122 °F (60 °C) - 10 °s for power circuit 89 A 128 °F (60 °C) - 30 °s for power circuit 45 A 122 °F (60 °C) - 30 °s for power circuit 46 A 122 °F (60 °C) - 30 °s for power circuit 46 A 122 °F (60 °C) - 30 °s for power circuit 26 A 122 °F (60 °C) - 30 °s for power circuit 28 A 122 °F (60 °C) - 30 °s for power circuit 29 A 122 °F (60 °C) - 30 °s for power circuit 29 A 120 °F (60 °C) - 30 °s for signalling circuit 110 A - 100 ms for signalling circuit 110 A - 100 ms for signalling circuit 110 A - 100 ms for signalling circuit 25 A M for power circuit 25 A M for power circuit 25 A M for power circuit 26 A M for power circuit 27 A M for power circuit 28 A M for power circuit 29 A - 10 A g for signalling circuit conforming to IEC 80947 10 A g for signalling circuit conforming to VDE 0860  Average impedance 3 mChm - Ith 20 A 50 Hz for power circuit 16 A - 10 A g for signalling circuit conforming to VDE 0860  Average impedance 3 mChm - Ith 20 A 50 Hz for power circuit 17 A - 10 A g for signalling circuit conforming to VDE 0860  Average impedance 3 mChm - Ith 20 A 50 Hz for power circuit 18 A - 10 A g for signalling circuit 18 A - 10 A g for signalling circuit 19 A - 10 A g for signalling circuit 19 A - 10 A g for signalling circuit 19 A - 10 A g for signalling circuit 10 A - 10 A g for sig	[Icw] rated short-time withstand current		
60 A 122 °F (60 °C) - 3 int for power circuit		· · ·	
40 A 122 °F (50 °C) ->> 15 min for power circuit 20 A 122 °F (50 °C) ->> 15 min for power circuit 80 A - 15 for signalling circuit 80 A - 15 for signalling circuit 110 A - 100 ms for signalling circuit 110 A - 100 ms for signalling circuit 125 A gG for signalling circuit conforming to IEC 69847 10 A gG for signalling circuit conforming to IEC 69847 10 A gG for signalling circuit conforming to VED 6960  Average impedance 3 mOhm - Ith 20 A 50 Hz for power circuit 10 A gG for signalling circuit conforming to VED 6960  Average impedance 3 mOhm - Ith 20 A 50 Hz for power circuit  Insulation resistance > 10 MOhm for signalling circuit conforming to VED 6960  Average impedance 1			
20 A 122°F (50°C) -> 15 min for power circuit 80 A - 1 s for signalling circuit 10 A - 100 ms for signalling circuit 110 A - 100 ms for signalling circuit 125 A M for power circuit 126 A M for power circuit 127 A M for power circuit 128 A M for power circuit 129 A gG of signalling circuit conforming to IEC 80947 10 A gG for signalling circuit conforming to VDE 0880  Average impedance 3 mChm - Ith 20 A 50 Hz for power circuit Insulation resistance 101 MChm for signalling circuit conforming to VDE 0880  Average impedance 3 mChm - Ith 20 A 50 Hz for power circuit Insulation resistance 101 MChm for signalling circuit Insulation resistance 101 MChm for signalling circuit Insulation resistance 102 M 4 5 VA (at 68°F (20°C)) Heat dissipation 1.3 W Control circuit voltage limits Operationals 0.81.15 Uc (at <122°F (50°C)) Drop-out >= 0.20 Uc (at <122°F (50°C))  Connections - terminals 200 Co. 10.00 in (27.54 mm²)solid sorew clamp terminals 1 0.000006 in in (7.54 mm²)solid sorew clamp terminals 1 0.000006 in in (7.54 mm²)solid sorew clamp terminals 1 0.000006 in in (7.54 mm²)solid sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid sorew clamp terminals 1 0.000006 in in (7.54 mm²)solid sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid with cable end sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid with cable end sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid with cable end sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid with cable end sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid with cable end sorew clamp terminals 2 0.000006 in in (7.54 mm²)solid with cable end sorew clamp terminals 2 0.000006 in in (7.54 m		45 A 122 °F (50 °C) - 1 min for power circuit	
80 A - 15 for signalling circuit 90 A - 500 ms for signalling circuit 110 A - 100 ms for signalling circuit 125 A g at <= 440 V for power circuit 25 A g for signalling circuit conforming to IEC 80947 10 A g G for signalling circuit conforming to VDE 0660  Average impedance 3 m0hm - Ith 20 A 50 Hz for power circuit 10 A g G for signalling circuit conforming to VDE 0660  Average impedance 3 m0hm - Ith 20 A 50 Hz for power circuit 10 A g G for signalling circuit conforming to VDE 0660  Average impedance 3 m0hm - Ith 20 A 50 Hz for power circuit 10 A g G for signalling circuit for signalling circuit 10 A g G for signalling circuit for signalling circuit 10 A g G for signalling circuit for signalling circuit frequency 10 A g G for signalling circuit for signalling circuit 10 A g G for signalling circuit for signal			
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25 A aM for power circuit   10 A gG for signalling circuit conforming to IEC 60947   10 A g G for signalling circuit conforming to VDE 0660		110 A - 100 ms for signalling circuit	
10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660  Average impedance 3 mOhm - Ith 20 A 50 Hz for power circuit  Insulation resistance > 10 MOhm for signalling circuit  Inrush power in VA 30 VA (at 68 °F (20 °C))  Heat dissipation 1,3 W Control circuit voltage limits Operational: 0.81.15 Uc (at <122 °F (50 °C))  Connections - terminals  screw clamp terminals 1 0.002006 in² (1.54 mm²)solid screw clamp terminals 1 0.000006 in² (0.754 mm²)solid screw clamp terminals 1 0.000006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.0002006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.0005006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.0005006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.0005006 in² (0.754 mm²)flexible with cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible without cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible without cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible without cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible without cable end screw clamp terminals 2 0.0005000 in² (0.341.5 mm²)flexible without cable end screw clamp terminals 2 0.0005000 in² (0.341.5	Associated fuse rating	25 A gG at <= 440 V for power circuit	
10 A gG for signalling circuit conforming to VDE 0660  Average impedance 3 mOhm - Ith 20 A 50 Hz for power circuit  Insulation resistance > 10 MOhm for signalling circuit  Inrush power in VA 30 VA (at 68 °F (20 °C))  Hold-in power consumption in VA 4.5 VA (at 68 °F (20 °C))  Heat dissipation 1.3 W  Control circuit voltage limits Operational: 0.81.15 Uc (at <122 °F (50 °C))  Drop-out: ≥= 0.20 Uc (at <122 °F (50 °C))  Connections - terminals core damp terminals 1 0.000 in² (1.54 mm²) solid screw clamp terminals 1 0.000 in² (0.754 mm²) flexible without cable end screw clamp terminals 1 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.001 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.002 000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.000 in² (0.754 mm²) flexible with cable end sc		·	
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Insulation resistance   > 10 MOhm for signalling circuit		TO A gG for signalling circuit conforming to VDE 0000	
Inrush power in VA	Average impedance	3 mOhm - Ith 20 A 50 Hz for power circuit	
Hold-in power consumption in VA	Insulation resistance	> 10 MOhm for signalling circuit	
Control circuit voitage limits	Inrush power in VA	30 VA (at 68 °F (20 °C))	
Control circuit voltage limits   Operational: 0.81.15 Uc (at <122 °F (50 °C))	Hold-in power consumption in VA	4.5 VA (at 68 °F (20 °C))	
Connections - terminals  screw clamp terminals 1 0.0020.006 in³ (1.54 mm²) solid screw clamp terminals 1 0.0010.006 in³ (0.754 mm²) flexible without cable end screw clamp terminals 1 0.003004 in³ (0.342.5 mm²) flexible with cable end screw clamp terminals 2 0.0020.006 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.0020.006 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.00050.005 in² (0.754 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.551.10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Heat dissipation	1.3 W	
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screw clamp terminals 1 0.00050 0.04 in² (0.342.5 mm²)flexible with cable end screw clamp terminals 2 0.002006 in² (1.54 mm²)solid screw clamp terminals 2 0.0010.006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.0000 in² (0.341.5	Connections - terminals	screw clamp terminals 1 0.0020.006 in² (1.54 mm²)solid	
screw clamp terminals 2 0.0020 06 in² (1.54 mm²)solid screw clamp terminals 2 0.0010.06 in² (0.754 mm²)slexible without cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end  Maximum operating rate 3600 cyc/h  Auxiliary contacts type Instantaneous 1 NO  Signalling circuit frequency <= 400 Hz  Minimum switching current 5 mA for signalling circuit  Minimum switching voltage 17 V for signalling circuit  Operating time 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing  Safety reliability level B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1  Non overlap distance 0.02 in (0.5 mm)  Mechanical durability 10 Mcycles  Electrical durability 1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3 <= 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 440 V 0.02 Mcycles 54 AC-4 <= 440 V 0.02			
screw clamp terminals 2 0.0010.006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.00050002 in² (0.341.5 mm²)flexible with cable end  Maximum operating rate 3600 cyc/h  Auxiliary contacts type Instantaneous 1 NO  Signalling circuit frequency <= 400 Hz  Minimum switching current 5 mA for signalling circuit  Minimum switching voltage 17 V for signalling circuit  Operating time 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing  Safety reliability level B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1  Non overlap distance 0.02 in (0.5 mm)  Mechanical durability 10 Mcycles  Electrical durability 1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3 <= 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 440 V 0.03 Mcycles 54 AC-4 <= 440 V 0.03 Mcycle			
Screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end  Maximum operating rate  3600 cyc/h  Auxiliary contacts type  Instantaneous 1 NO  Signalling circuit frequency  <= 400 Hz  Minimum switching current  5 mA for signalling circuit  Minimum switching voltage  17 V for signalling circuit  1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing  Safety reliability level  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 Non overlap distance  0.02 in (0.5 mm)  Mechanical durability  10 Mcycles  1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3 << 440 V 0.16 Mcycles 20 A AC-1 << 690 V 0.02 Mcycles 54 A AC-4 << 440 V 0.03 Mcycles 54 A AC-4 << 440 V 0.04 Mcycles 54 A AC-4 << 440 V 0.05 Mcycles 54 A AC-4 << 440			
Auxiliary contacts type  Instantaneous 1 NO  Signalling circuit frequency  <= 400 Hz  Minimum switching current  5 mA for signalling circuit  17 V for signalling circuit  1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing  Safety reliability level  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 Non overlap distance  0.02 in (0.5 mm)  Mechanical durability  10 Mcycles  Electrical durability  1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3 <= 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 440 V  Mechanical robustness  Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened on X axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened Gn, 5300 Hz IEC 60068-2-27 Vibrations contactor opened Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened Gn, 5300 Hz IEC 60068-2-6			
Minimum switching current  5 mA for signalling circuit  Minimum switching voltage  17 V for signalling circuit  1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing  Safety reliability level  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 Non overlap distance  0.02 in (0.5 mm)  Mechanical durability  1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3 <= 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 440 V  Mechanical robustness  Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened Gn, 5300 Hz IEC 60068-2-6	Maximum operating rate	3600 cyc/h	
Minimum switching current  5 mA for signalling circuit  17 V for signalling circuit  1020 ms coil de-energisation and NO opening 1020 ms coil de-energisation and NO closing  Safety reliability level  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1  Non overlap distance  0.02 in (0.5 mm)  Mechanical durability  10 Mcycles  Electrical durability  1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3 << 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 440 V 0.02 Mcycles 54 A AC-4 <= 440 V 0.05 Mcycles 54 A AC-4 <= 440 V 0.05 Mcycles 54 A AC-6 <= 450 Mcycles 54 AC-6 <= 450 Mcy	Auxiliary contacts type	Instantaneous 1 NO	
Minimum switching voltage  17 V for signalling circuit  1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing  Safety reliability level  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1  Non overlap distance  0.02 in (0.5 mm)  Mechanical durability  10 Mcycles  Electrical durability  1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3 <= 40 V 1.3 M	Signalling circuit frequency	<= 400 Hz	
Departing time	Minimum switching current	5 mA for signalling circuit	
1020 ms coil energisation and NO closing	Minimum switching voltage	17 V for signalling circuit	
B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	Operating time	1020 ms coil de-energisation and NO opening	
B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1   Non overlap distance		1020 ms coil energisation and NO closing	
Mechanical durability	Safety reliability level	·	
1.3 Mcycles 9 A AC-3 <= 440 V	Non overlap distance	0.02 in (0.5 mm)	
1.3 Mcycles 9 A AC-3 <= 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 440 V  Mechanical robustness  Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6  Height  2.3 in (58 mm)	Mechanical durability	10 Mcycles	
0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 440 V  Mechanical robustness  Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6  Height  2.3 in (58 mm)	Electrical durability	·	
Mechanical robustness  Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6  Height  2.3 in (58 mm)		·	
Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6  Height  2.3 in (58 mm)			
Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6  Height  2.3 in (58 mm)	Mechanical robustness	Shocks contactor closed on X axis 10 Cn for 11 ms IEC 60069 2 27	
Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6  Height  2.3 in (58 mm)			
Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6  Height  2.3 in (58 mm)			
Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6  Height  2.3 in (58 mm)		·	
Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6  Height 2.3 in (58 mm)		·	
Height 2.3 in (58 mm)			
Width 1.8 in (45 mm)	Height	2.3 in (58 mm)	
	Width	1.8 in (45 mm)	

**Depth** 2.2 in (57 mm)

### **Environment**

Standards	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ	
Product Certifications	CB Scheme CCC UL CSA EAC CE UKCA	
Protective treatment	TC IEC 60068 TC DIN 50016	
Operating altitude	6561.68 ft (2000 m) without derating	
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102	

# Ordering and shipping details

Category	US10I1222326
Discount Schedule	0112
GTIN	3389110363623
Returnability	Yes

# **Packing Units**

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	2.60 in (6.600 cm)	
Package 1 Width	1.89 in (4.800 cm)	
Package 1 Length	2.44 in (6.200 cm)	
Package 1 Weight	6.279 oz (178.000 g)	
Unit Type of Package 2	S02	
Number of Units in Package 2	50	
Package 2 Height	5.91 in (15.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	20.399 lb(US) (9.253 kg)	
Unit Type of Package 3	P06	
Number of Units in Package 3	800	
Package 3 Height	29.53 in (75.000 cm)	
Package 3 Width	23.62 in (60.000 cm)	
Package 3 Length	31.50 in (80.000 cm)	

Package 3 Weight

351.494 lb(US) (159.435 kg)

# **Contractual warranty**

Warranty

18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

### Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	54
Environmental Disclosure	Product Environmental Profile

### **Use Better**

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

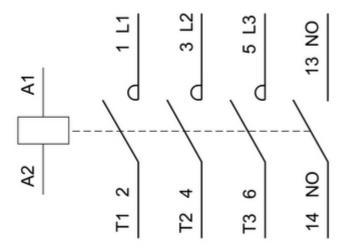
### **Use Again**

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

**Technical Illustration** 

## Wiring diagram

3P NO



### Offer Marketing Illustration

### **Product benefits / Features**

# TeSys K



Built-in in all 3 pole versions: 1NO or 1NC

Up to 4 more by add-on blocks

Up to 16 A for motor control (AC3/ AC3E) and 20A for resistive load control (AC1)

Available as single contactors, star-delta, and reversing combos, with a wealth of options and accessories

#### Control Options:

- · AC: 24 to 660/690 V, standard or low-noise
- · DC: 12 to 250V, standard or low consumption (1.8 W) versions
- Thermal protection relays

It Features specific versions for railway (TeSys S207) and electrodomestic (TeSys S335) applications



### Offer Marketing Illustration

### **Product benefits / Features**

# TeSys K

### Contactors



### Flexibility

Designed with control voltages, low consumption, minimal noise levels, robust power connections, and a range of auxiliaries, and application-specific variants to meet diverse needs.



### Safety

It provide ultimate protection with IP20 fingersafe terminals, built-in NO/NC auxiliary contacts, and IEC-certified mirror and mechanically linked contacts for safety applications.



### Compact size

Up to 50% less volume is captured in your panels. One of he smallest contactors offerings in the market

### **Technical Illustration**

### Assembly's dimensions

