

# Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V 80A, 24V DC coil, lugs-ring terminals

LC1D806BD

### Main

Range	TeSys	
Range Of Product	TeSys Deca	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Resistive load Motor control	
Utilisation Category	AC-3 AC-3e AC-4 AC-1	
Poles Description	3P	
[Ue] Rated Operational Voltage	Power circuit: <= 300 V DC 25400 Hz Power circuit: <= 690 V AC	
[le] Rated Operational Current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] Control Circuit Voltage	24 V DC	

## Complementary

Motor Power Kw	22 kW at 220230 V AC 50/60 Hz (AC-3)	
	37 kW at 380400 V AC 50/60 Hz (AC-3)	
	45 kW at 415440 V AC 50/60 Hz (AC-3)	
	55 kW at 500 V AC 50/60 Hz (AC-3)	
	45 kW at 660690 V AC 50/60 Hz (AC-3)	
	15 kW at 400 V AC 50/60 Hz (AC-4)	
	22 kW at 220230 V AC 50/60 Hz (AC-3e)	
	37 kW at 380400 V AC 50/60 Hz (AC-3e)	
	45 kW at 415440 V AC 50/60 Hz (AC-3e)	
	55 kW at 500 V AC 50/60 Hz (AC-3e)	
	45 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor Power Hp	7.5 hp at 120 V AC 50/60 Hz for 1 phase motors	
	15 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	30 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	30 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	60 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	60 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Protective Cover	With	
[Ith] Conventional Free Air	10 A (at 60 °C) for signalling circuit	
Thermal Current	125 A (at 60 °C) for power circuit	
Irms Rated Making Capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1	
	250 A DC for signalling circuit conforming to IEC 60947-5-1	
	1100 A at 440 V for power circuit conforming to IEC 60947	

Rated Breaking Capacity 1100 A at 460 V for power circuit conforming to IEC 60947  [Itew] Rated Short-Time Withstand 640 A 40 °C - 10 s in for power circuit 350 A 40 °C - 11 s for power circuit 350 A 40 °C - 10 min for power circuit 350 A 40 °C - 10 min for power circuit 350 A 40 °C - 10 min for power circuit 350 A 40 °C - 10 min for power circuit 120 A - 500 ms for signaling circuit 140 A - 100 ms for signaling ci		
Gurrent  990 A 0 °C - 1 a for power circuit 130 A 0 °C - 1 min for power circuit 320 A 0 °C - 1 min for power circuit 120 A · 500 ms for signalling circuit 120 A · 500 ms for signallin	Rated Breaking Capacity	1100 A at 440 V for power circuit conforming to IEC 60947
200 A gG at <= 690 V coordination type 2 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit  Average Impedance  0.8 mOhm - Ith 125 A 50 Hz for power circuit 2.5 M AC-3 12.5 W AC-1 5.1 W AC-3 12.5 W AC-3 12.5 W AC-1 5.1 W AC-3 12.5 W AC-1 13.1 Look of the continuity		990 A 40 °C - 1 s for power circuit 135 A 40 °C - 10 min for power circuit 320 A 40 °C - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit
Power Dissipation Per Pole  1.5.1 W AC-3 12.5 W AC-1 5.1 W AC-3 12.5 W AC-3 12	Associated Fuse Rating	200 A gG at <= 690 V coordination type 1 for power circuit
12.5 W AC-1   5.1 W AC-3e	Average Impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit
Power circuit: 600 V Ontorioming to IEC 60947-4-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V CL certified circuit: 12 N m - on lugs-ing terminals - with screwdriver field 61 mm M3.5 Control circuit: 12 N m - on lugs-ing terminals - with screwdriver field 68 mm M6 Power circuit: 5 N m - on lugs-ing terminals - with screwdriver field 68 mm M6 Power circuit: 5 N m - on lugs-ing terminals - with screwdriver field 68 mm M6 Power circuit: 5 N m - on lugs-ing terminals - with screwdrive	Power Dissipation Per Pole	12.5 W AC-1
Pollution Degree  3   Ulimp] Rated Impulse Withstand   8 kV conforming to IEC 60947     Voltage   B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1     B10d = 200000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1     B10d = 200000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1     B10d = 200000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1     Mechanical Durability   10 Mcycles     B10d = 1369863 cycles contactor with mechanical load conforming to EN/ISO 13849-1     Mechanical Durability   10 Mcycles     B2 Mcycles 125 A AC-1 at Ue <= 440 V	[Ui] Rated Insulation Voltage	Power circuit: 600 V UL certified  Power circuit: 1000 V conforming to IEC 60947-4-1  Signalling circuit: 690 V conforming to IEC 60947-1  Signalling circuit: 600 V CSA certified
Control Circuit Voltage Limits	Overvoltage Category	III
Safety Reliability Level  B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 200000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 Mechanical Durability  10 Mcycles  Electrical Durability  0.8 Mcycles 125 A AC-1 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3	Pollution Degree	3
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 10 Mcycles  B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1  Mechanical Durability 10 Mcycles 125 A AC-1 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 at Ue Secure 90 Accessed 90 Accessed 90		8 kV conforming to IEC 60947
Electrical Durability  0.8 Mcycles 125 A AC-1 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V  Control Circuit Type  DC standard  Coil Technology  Without built-in suppressor module  Control Circuit Voltage Limits  0.10.3 Uc (-4070 °C):drop-out DC 0.851.1 Uc (5570 °C):operational DC  Inrush Power In W  22 W (at 20 °C)  Inrush Power Consumption In W 22 W at 20 °C  Operating Time  95130 ms closing 2035 ms opening  Time Constant  75 ms  Maximum Operating Rate  3600 cyc/h 60 °C  Connections - Terminals  Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals - with screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit		B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO
1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3e at Ue <= 440 V 1.5 Mcycles 80 A AC-3e at Ue <= 440 V 1.5 Mcycles 80 A AC-3e at Ue <= 440 V  Control Circuit Type  DC standard  Coil Technology  Without built-in suppressor module  Ontrol Circuit Voltage Limits  0.10.3 Uc (-4070 °C):drop-out DC 0.851.1 Uc (-4055 °C):operational DC 11.1 Uc (5570 °C):operational DC  Inrush Power In W 22 W (at 20 °C)  Hold-In Power Consumption In W 22 W at 20 °C  Operating Time  95130 ms closing 2035 ms opening  Time Constant  75 ms  Maximum Operating Rate  Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 5 N.m - on lugs-ring terminals hexagonal serve head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition  1 NO + 1 NC  Auxiliary Contacts Type	Mechanical Durability	10 Mcycles
Coll Technology  Without built-in suppressor module  Control Circuit Voltage Limits  0.10.3 Uc (-4070 °C):drop-out DC 0.851.1 Uc (-4055 °C):operational DC  11.1 Uc (5570 °C):operational DC  Inrush Power In W  22 W (at 20 °C)  Hold-In Power Consumption In W  22 W at 20 °C  Operating Time  95130 ms closing 2035 ms opening  Time Constant  75 ms  Maximum Operating Rate  3600 cyc/h 60 °C  Connections - Terminals  Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition  1 NO + 1 NC  Auxiliary Contacts Type  Without Duils-ing very autional DC  1 very contact on the contact of the contact on the co	Electrical Durability	1.5 Mcycles 80 A AC-3 at Ue <= 440 V
Control Circuit Voltage Limits  0.10.3 Uc (-4070 °C):drop-out DC 0.851.1 Uc (5570 °C):operational DC 11.1 Uc (5570 °C):operational DC  Inrush Power In W  22 W (at 20 °C)  Hold-In Power Consumption In W  22 W at 20 °C  Operating Time  95130 ms closing 2035 ms opening  Time Constant  75 ms  Maximum Operating Rate  3600 cyc/h 60 °C  Connections - Terminals  Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5	Control Circuit Type	DC standard
0.851.1 Uc (-4055 °C):operational DC 11.1 Uc (5570 °C):operational DC  11.1 Uc (5570 °C):operational DC  Inrush Power In W  22 W (at 20 °C)  Hold-In Power Consumption In W  22 W at 20 °C  Operating Time  95130 ms closing 2035 ms opening  Time Constant  75 ms  Maximum Operating Rate  3600 cyc/h 60 °C  Connections - Terminals  Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals serve head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition  1 NO + 1 NC  Auxiliary Contacts Type  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	Coil Technology	Without built-in suppressor module
Hold-In Power Consumption In W 22 W at 20 °C  Operating Time 95130 ms closing 2035 ms opening  Time Constant 75 ms  Maximum Operating Rate 3600 cyc/h 60 °C  Connections - Terminals Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals circuit at Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition 1 NO + 1 NC  Auxiliary Contacts Type type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	Control Circuit Voltage Limits	0.851.1 Uc (-4055 °C):operational DC
Operating Time  95130 ms closing 2035 ms opening  Time Constant  75 ms  Maximum Operating Rate  3600 cyc/h 60 °C  Connections - Terminals  Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition  1 NO + 1 NC  4uxiliary Contacts Type  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	Inrush Power In W	22 W (at 20 °C)
Time Constant  75 ms  Maximum Operating Rate  3600 cyc/h 60 °C  Connections - Terminals  Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Power circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition  1 NO + 1 NC  4uxiliary Contacts Type  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	Hold-In Power Consumption In W	22 W at 20 °C
Maximum Operating Rate  3600 cyc/h 60 °C  Connections - Terminals  Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition  1 NO + 1 NC  4uxiliary Contacts Type  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	Operating Time	S Comment of the comm
Connections - Terminals  Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition  1 NO + 1 NC  4uxiliary Contacts Type  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	Time Constant	75 ms
Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 mm  Tightening Torque  Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition  1 NO + 1 NC  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	Maximum Operating Rate	3600 cyc/h 60 °C
Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5  Auxiliary Contact Composition  1 NO + 1 NC  Auxiliary Contacts Type  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	Connections - Terminals	Power circuit: bars 1 - busbar cross section: 3 x 16 mm
Auxiliary Contacts Type type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	Tightening Torque	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6
- · · · · · · · · · · · · · · · · · · ·	Auxiliary Contact Composition	1 NO + 1 NC
	Auxiliary Contacts Type	
Signalling Circuit Frequency 25400 Hz	Signalling Circuit Frequency	25400 Hz

Minimum Switching Voltage	17 V for signalling circuit	
Minimum Switching Current 5 mA for signalling circuit		
Insulation Resistance	> 10 MOhm 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	
Mounting Support	Rail Plate	

## **Environment**

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product Certifications	LROS (Lloyds register of shipping) CCC DNV GL GOST RINA BV UL CSA
Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Climatic Withstand	conforming to IACS E10 exposure to damp heat
Permissible Ambient Air Temperature Around The Device	-4060 °C 6070 °C with derating
Operating Altitude	03000 m
Fire Resistance	850 °C conforming to IEC 60695-2-1
Flame Retardance	V1 conforming to UL 94
Mechanical Robustness	Vibrations contactor open (2 Gn, 5300 Hz) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor closed (10 Gn for 11 ms)
Height	127 mm
Width	85 mm
Depth	186 mm
Net Weight	2.59 kg

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.000 cm
Package 1 Width	13.500 cm
Package 1 Length	21.000 cm
Package 1 Weight	2.293 kg
Unit Type Of Package 2	S02
Number Of Units In Package 2	2

Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.836 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	32
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	85.376 kg

# **Contractual warranty**

Warranty 18 months

## **Sustainability**

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

#### Well-being performance

<b>Ø</b>	Reach Free Of Svhc	
<b>Ø</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>Ø</b>	Rohs Exemption Information	Yes
	Pvc Free	

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations
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