Product datasheet

Specifications

Green Premium™

Reversing Contactor, TeSys Deca, 3P(3NO), AC-3, IEC, <=440V, 65A, 120V AC 60Hz coil

LC2D65G7

Main

Range Of Product	TeSys Deca
Product Or Component Type	Reversing contactor
Device Short Name	LC2D
Contactor Application	Motor control
Utilisation Category	AC-2 AC-3 AC-4
Control Circuit Type	AC
Coil Type	Standard
Poles Description	3P
Pole Contact Composition	3 NO
[Ie] Rated Operational Current	Power circuit: 65 A AC AC-3 (at <60 °C)
Motor Power Kw	30 kW at 380...400 V AC 50/60 Hz 37 kW at 415 V AC 50/60 Hz 37 kW at 440 V AC 50/60 Hz 37 kW at 500 V AC 50/60 Hz 37 kW at 660...690 V AC 50/60 Hz 18.5 kW at 220...240 V AC 50/60 Hz
[Uc] Control Circuit Voltage	120 V AC 50/60 Hz
Connections - Terminals	Control circuit: 1 cable(s) 1…4 mm²flexible with cable end Control circuit: 1 cable(s) 1…4 mm²flexible without cable end Control circuit: 1 cable(s) 1…4 mm²solid without cable end Control circuit: 2 cable(s) 1…2.5 mm²flexible with cable end Control circuit: 2 cable(s) 1…4 mm²flexible without cable end Control circuit: 2 cable(s) 1…4 mm²solid without cable end Power circuit: 1 cable(s) 1…35 mm²flexible with cable end Power circuit: 1 cable(s) 1…35 mm²flexible without cable end Power circuit: 1 cable(s) 1…35 mm²solid without cable end Power circuit: 2 cable(s) 1…25 mm²flexible with cable end Power circuit: 2 cable(s) 1…25 mm²flexible without cable end Power circuit: 2 cable(s) 1…25 mm²solid without cable end Power circuit: 2 cable(s) 1…35 mm²flexible with cable end Power circuit: 2 cable(s) 1…35 mm²flexible without cable end Power circuit: 2 cable(s) 1…35 mm²solid without cable end

Complementary

Assembly Style	Ready assembled
Coil Technology	Without built-in bidirectional peak limiting diode suppressor
Protective Cover	With
Auxiliary Contacts Type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
Auxiliary Contact Composition	1 NO + 1 NC

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Interlocking Type	Mechanical
Control Circuit Voltage Limits	Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <60 °C) Operational: 0.8...1.1 Uc at 50 Hz (at <60 °C) Operational: 0.85...1.1 Uc at 60 Hz (at <60 °C)
[Ui] Rated Insulation Voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
Overvoltage Category	III
Mounting Support	Plate Rail
Flame Retardance	V1 conforming to UL 94
Tightening Torque	Control circuit: 1.7 N.m - cable 1…2.5 mm² - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - cable 1…2.5 mm² - with screwdriver Philips No 2 Control circuit: 1.7 N.m - cable 1…4 mm² - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - cable 1…4 mm² - with screwdriver Philips No 2 Power circuit: 5 N.m - cable 1…25 mm² hexagonal screw head Power circuit: 8 N.m - cable 1…35 mm² hexagonal screw head
[Ue] Rated Operational Voltage	Power circuit: <= 1000 V AC 25...400 Hz
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for control circuit 80 A (at 60 °C) for power circuit
Irms Rated Making Capacity	1000 A at 440 V for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1
Rated Breaking Capacity	1000 A at 440 V for power circuit conforming to IEC 60947
Associated Fuse Rating	10 A gG for control circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 2 for power circuit 160 A gG at <= 690 V coordination type 1 for power circuit
Average Impedance	- Ith 80 A 50 Hz for power circuit
Power Dissipation Per Pole	6.3 W AC-3 - Ith 80 A
Inrush Power In Va	200 VA cos phi 0.75 (at 20 °C) 220 VA cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	20 VA 50 Hz cos phi 0.3 (at 20 °C) 22 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C) 26 VA 60 Hz cos phi 0.3 (at 20 °C)
Operating Time	12...26 ms closing 4...19 ms opening
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	6000000 cycles
Maximum Operating Rate	3600 cyc/h 60 °C
Minimum Switching Current	5 mA for control circuit
Minimum Switching Voltage	17 V for control circuit
Non-Overlap Time	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Insulation Resistance	> 10 MOhm for control circuit
Height	132 mm
Width	165 mm
Depth	142 mm

Net Weight	2.4 kg

Environment

Standards	IEC 60947-5-1 EN 60947-4-1 CSA C22.2 No 14 EN 60947-5-1 UL 508 IEC 60947-4-1
Product Certifications	UL GOST DNV LROS (Lloyds register of shipping) CCC BV RINA CSA GL UKCA
Ip Degree Of Protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106
Protective Treatment	TH (pollution degree 3) conforming to IEC 60068
Ambient Air Temperature For Operation	-5…60 °C
Ambient Air Temperature For Storage	-60…80 °C
Permissible Ambient Air Temperature Around The Device	-40…70 °C at Uc
Operating Altitude	3000 m without derating
Fire Resistance	850 °C conforming to IEC 60695-2-1
Shock Resistance	10 gn contactor closed 8 gn contactor opened
Vibration Resistance	2 gn 5…300 Hz contactor opened 3 gn 5…300 Hz contactor closed
Heat Dissipation	6…10 W at 50/60 Hz for control circuit

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	25.5 cm
Package 1 Width	18.5 cm
Package 1 Length	19.0 cm
Package 1 Weight	3.296 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
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