Product datasheet

Specifications

Discontinued

TeSys Integral - contactor breaker - 63 A AC-43 - 48 V AC coil

LD1LD030CE

Discontinued on: 1 Nov 2020

Main

Range	TeSys
Product name	TeSys Integral 63
Product or component type	Contactor breaker
Device short name	LD1LD

Complementary

Utilisation category	AC-43
Poles description	3P
[Ue] rated operational voltage	690 V AC 50/60 Hz
[Ie] rated operational current	63 A AC AC-43
[Ith] conventional free air thermal current	63 A (at 40 °C)
Motor power kW	15 kW at 220...240 V AC 50/60 Hz 30 kW at 400 V AC 50/60 Hz 33 kW at 415 V AC 50/60 Hz 37 kW at 500 V AC 50/60 Hz 55 kW at 660 V AC 50/60 Hz 33 kW at 440 V AC 50/60 Hz
[Uc] control circuit voltage	48 V AC 60 Hz
Control type	Knob black front
Irms rated making capacity	756 A conforming to IEC 60947-4 946 A conforming to IEC 60947-4
[Ipk] rated peak withstand current	105 kA conforming to IEC 60947-2
Breaking capacity	Icu 10 kA at 600...690 V (cos φ 0.5) conforming to IEC 60947-2 Icu 30 kA at 480...525 V (cos φ 0.25) conforming to IEC 60947-6-2 Icu 50 kA at <= 440 V (cos φ 0.25) conforming to IEC 60947-2
[Ics] rated service breaking capacity	10 kA at 600...690 V conforming to IEC 60947-2 35 kA at 480...525 V conforming to IEC 60947-2 50 kA at <= 440 V conforming to IEC 60947-2
Maximum breaking time	4 ms
Thermal stress limit	300000 A².s
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-4
Control circuit voltage limits	0.25...0.7 Uc drop-out 55 °C 0.85...1.1 Uc operation 55 °C
[Ui] rated insulation voltage	690 V conforming to IEC 60947-1
Inrush power in VA	450 VA 60 Hz (at 20 °C)

Hold-in power consumption in VA	25 VA (at 20 °C)
Heat dissipation	5 W at 32 A per pole, hot state for power circuit 7 W at 50 A per pole, hot state for power circuit 9 W at 63 A per pole, hot state for power circuit 4.4 W at 25 A per pole, hot state for power circuit 5.8 W at 40 A per pole, hot state for power circuit 11 W at 60 Hz for control circuit
Operating time	12...35 ms AC network closing at 20 °C for control circuit 7...20 ms AC network opening at 20 °C for control circuit
Electrical durability	1 Mcycles on AC-3 3 kA at 415 V - after 1 cycle O-CO-r-CO at Isc 0.9 Mcycles on AC-3 10 kA at 415 V - after 1 cycle O-CO-r-CO at Isc 0.6 Mcycles on AC-3 25 kA at 415 V - after 1 cycle O-CO-r-CO at Isc 0.5 Mcycles on AC-3 35 kA at 415 V - after 1 cycle O-CO-r-CO at Isc 0.2 Mcycles on AC-3 50 kA at 415 V - after 1 cycle O-CO-r-CO at Isc
Mechanical durability	1.2 Mcycles
Connections - terminals	Power circuit: screw clamp terminals 1 cable(s) 6…50 mm² - flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 6…25 mm² - flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 6…25 mm² - flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 6…25 mm² - flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 6…50 mm² - solid
Tightening torque	Power circuit: 6 N.m - on screw clamp terminals
Width	90 mm
Height	243 mm
Depth	192 mm
Net weight	3.7 kg

Environment

Standards	BS 4752 VDE 0660 NF C 79-100 IEC 60947-4 IEC 60364 NF C 63-120 BS 5424 NF C 63-110 VDE 0113 IEC 60947-1 VDE 0170 VDE 471 NF C 20-040 VDE 0100 BS 4941 NF C 63-650 VDE 0110 NF C 63-130 NEN IEC 60947-2 NBN IEC 60158-1 VDE 0171 IEC 60204-2 IEC 60204-1

Product certifications	USSR SCC LROS (Lloyds register of shipping) BV NKK ASEFA UL NEMKO CSA DEMKO RINA OVE ASE GL SETI DNV ASTA
Protective treatment	TH
Ambient air temperature for operation	-20…60 °C
Ambient air temperature for storage	-40…80 °C
Mechanical robustness	Vibrations de-energised: 3 Gn, 1...300 Hz Vibrations energised: 3 Gn, 1...300 Hz Shocks de-energised: 8 Gn for 11 ms Shocks energised: 8 Gn for 11 ms
IP degree of protection	IP20 B conforming to IEC 60144 IP20 B conforming to IEC 60529
Operating altitude	3000 m without derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12 cm
Package 1 Width	22 cm
Package 1 Length	27 cm
Package 1 Weight	3.7 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

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 >

Use Better

Materials and Substances

EU RoHS Directive	Compliant

Use Longer

Lifetime extension

Repair	No

Use Again

Repack and remanufacture

WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins