



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	220...230 V AC 50 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 60947-2 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 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	375 VA 50 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 8 W at 50 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 I _{sc} 0.9 Mcycles on AC-3 10 kA at 415 V - after 1 cycle O-CO-r-CO at I _{sc} 0.6 Mcycles on AC-3 25 kA at 415 V - after 1 cycle O-CO-r-CO at I _{sc} 0.5 Mcycles on AC-3 35 kA at 415 V - after 1 cycle O-CO-r-CO at I _{sc} 0.2 Mcycles on AC-3 50 kA at 415 V - after 1 cycle O-CO-r-CO at I _{sc}
Mechanical durability	1.2 Mcycles
Connections - terminals	Power circuit: screw clamp terminals 1 cable(s) 6...50 mm ² - flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 6...25 mm ² - flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 6...25 mm ² - flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 6...25 mm ² - flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 6...50 mm ² - 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	IEC 60204-1 BS 5424 NF C 79-100 IEC 60158-1 IEC 60947-4 NF C 63-110 VDE 0171 VDE 471 NF C 63-120 NF C 63-650 VDE 0110 NF C 20-040 IEC 60947-1 BS 4941 NBN IEC 60947-2 VDE 0100 NEN VDE 0660 VDE 0113 IEC 60204-2 BS 4752 NF C 63-130 IEC 60364 VDE 0170
Product certifications	ASEFA RINA DNV SETI LROS (Lloyds register of shipping) BV USSR GL SCC ASTA UL NKK OVE NEMKO CSA ASE

	DEMKO
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

Offer Sustainability

REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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