



Main

Range	TeSys
Product name	TeSys Integral
Product or component type	Contactor breaker
Device short name	LD4LD
Utilisation category	AC-43 AC-1
Poles description	3P
[Ue] rated operational voltage	690 V AC 50/60 Hz
[Ie] rated operational current	63 A AC AC-1 63 A AC AC-43
[Ith] conventional free air thermal current	63 A at ≤ 40 °C
Motor power kW	30 kW at 400 V AC 50/60 Hz 33 kW at 415 V AC 50/60 Hz 55 kW at 660 V AC 50/60 Hz 15 kW at 220...240 V AC 50/60 Hz 33 kW at 440 V AC 50/60 Hz 37 kW at 500 V AC 50/60 Hz
[Uc] control circuit voltage	220...230 V AC 50 Hz
Test function	Self test
Control type	Knob emergency stop red front conforming to CNOMO

Complementary

Irms rated making capacity	946 A conforming to IEC 60947-4 756 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 f 0.5) conforming to IEC 60947-2 Icu 30 kA at 480...525 V (cos f 0.25) conforming to IEC 60947-6-2 Icu 50 kA at ≤ 440 V (cos f 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 A ² .s
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-4

Control circuit voltage limits	0.25...0.7 Uc drop-out at <= 55 °C 0.85...1.1 Uc operation at <= 55 °C
[Ui] rated insulation voltage	690 V conforming to IEC 60947-1
Inrush power in VA	375 VA at 20 °C 50 Hz
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 8 W at 50 Hz for control 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
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 - Icu 3 kA - at 415 V - after 1 cycle O-CO-r-CO at Isc 0.9 Mcycles on AC-3 - Icu 10 kA - at 415 V - after 1 cycle O-CO-r-CO at Isc 0.6 Mcycles on AC-3 - Icu 25 kA - at 415 V - after 1 cycle O-CO-r-CO at Isc 0.5 Mcycles on AC-3 - Icu 35 kA - at 415 V - after 1 cycle O-CO-r-CO at Isc 0.2 Mcycles on AC-3 - Icu 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 6...50 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable 6...25 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable 6...25 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 2 cable 6...25 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable 6...50 mm ² - cable stiffness: solid
Tightening torque	Power circuit : 6 N.m - on screw clamp terminals
Width	90 mm
Height	243 mm
Depth	192 mm
Product weight	3.8 kg

Environment

Standards	VDE 0170 IEC 60204-2 NBN NF C 63-130 IEC 60947-2 VDE 0110 VDE 0660 VDE 0113 NEN NF C 20-040 NF C 63-110 IEC 60204-1 VDE 0171 NF C 79-100 IEC 60158-1 NF C 63-120 BS 5424 IEC 60947-4 NF C 63-650 IEC 60947-1 IEC 60364 VDE 471 BS 4941 VDE 0100 BS 4752
Product certifications	ASE RINA ASTA UL SCC GL ASEFA BV LROS (Lloyds register of shipping) NKK NEMKO OVE

SETI
USSR
DNV
CSA
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 state 3 Gn, 1...300 Hz Vibrations energised state 3 Gn, 1...300 Hz Shocks de-energised state 8 Gn for 11 ms Shocks energised state 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

Contractual warranty

Warranty period	18 months
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