



### Main

Range	TeSys
Product name	TeSys Integral 63
Product or component type	Reversing contactor breaker
Device short name	LD5LD
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 $\leq 40\text{ }^{\circ}\text{C}$
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	24 V AC 60 Hz
Test function	Self test
Control type	Knob black front conforming to CNOMO Knob black front conforming to VDE 0113

### 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 $\leq 440\text{ V}$ (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 $\leq 440\text{ V}$ conforming to IEC 60947-2
Maximum breaking time	4 ms
Thermal stress limit	300000 A <sup>2</sup> .s
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-4
Control circuit voltage limits	0.25...0.7 U <sub>c</sub> drop-out at $\leq 55\text{ }^{\circ}\text{C}$

	0.85...1.1 Uc operation at <= 55 °C
[Ui] rated insulation voltage	690 V conforming to IEC 60947-1
Inrush power in VA	450 VA at 20 °C 60 Hz
Hold-in power consumption in VA	25 VA at 20 °C
Heat dissipation	11 W at 60 Hz for control circuit 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
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 <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable 6...25 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable 6...25 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 2 cable 6...25 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable 6...50 mm <sup>2</sup> - cable stiffness: solid
Tightening torque	Power circuit : 6 N.m - on screw clamp terminals
Width	181 mm
Height	275 mm
Depth	194 mm
Product weight	7.6 kg

## Environment

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

ASTA  
USSR  
ASE  
CSA

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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