

# Product data sheet

Specifications



## Contactor breaker, TeSys Integral 63, 3P, 63A, 690VAC 50/60Hz, AC-43, 24VDC coil

LD1LD030BD

! To be discontinued on: 31 December 2023

! Discontinued

### 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 104 °F (40 °C)
Motor power kW	15 kW 220...240 V AC 50/60 Hz 30 kW 400 V AC 50/60 Hz 33 kW 415 V AC 50/60 Hz 37 kW 500 V AC 50/60 Hz 55 kW 660 V AC 50/60 Hz 33 kW 440 V AC 50/60 Hz
[Uc] control circuit voltage	24 V DC
Control type	Knob Black front
Irms rated making capacity	756 A IEC 60947-4 946 A IEC 60947-4
[Ipk] rated peak withstand current	105 kA IEC 60947-2
Breaking capacity	Icu 10 kA 600...690 V 0.5) IEC 60947-2 Icu 30 kA 480...525 V 0.25) IEC 60947-6-2 Icu 50 kA <= 440 V 0.25) IEC 60947-2
[Ics] rated service breaking capacity	10 kA 600...690 V IEC 60947-2 35 kA 480...525 V IEC 60947-2 50 kA <= 440 V IEC 60947-2
Maximum breaking time	4 ms
Thermal stress limit	300000 A <sup>2</sup> .s
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-4
Control circuit voltage limits	0.25...0.7 Uc drop-out 131 °F (55 °C) 0.85...1.1 Uc operation 131 °F (55 °C)

<b>[Ui] rated insulation voltage</b>	690 V IEC 60947-1
<b>Inrush power in W</b>	300 W 68 °F (20 °C))
<b>Hold-in power consumption in W</b>	8 W 68 °F (20 °C)
<b>Heat dissipation</b>	5 W 32 A per pole, hot state power circuit 7 W 50 A per pole, hot state power circuit 9 W 63 A per pole, hot state power circuit 4.4 W 25 A per pole, hot state power circuit 5.8 W 40 A per pole, hot state power circuit
<b>Operating time</b>	15...25 ms DC opening 68 °F (20 °C) control circuit 25...40 ms DC closing 68 °F (20 °C) control circuit
<b>Electrical durability</b>	1 Mcycles AC-3 3 kA 415 V - after 1 cycle O-CO-r-CO at Isc 0.9 Mcycles AC-3 10 kA 415 V - after 1 cycle O-CO-r-CO at Isc 0.6 Mcycles AC-3 25 kA 415 V - after 1 cycle O-CO-r-CO at Isc 0.5 Mcycles AC-3 35 kA 415 V - after 1 cycle O-CO-r-CO at Isc 0.2 Mcycles AC-3 50 kA 415 V - after 1 cycle O-CO-r-CO at Isc
<b>Mechanical durability</b>	1.2 Mcycles
<b>Connections - terminals</b>	Power circuit screw clamp terminals 1 0.01...0.08 in <sup>2</sup> (6...50 mm <sup>2</sup> ) flexible - without cable end Power circuit screw clamp terminals 2 0.01...0.04 in <sup>2</sup> (6...25 mm <sup>2</sup> ) flexible - without cable end Power circuit screw clamp terminals 1 0.01...0.04 in <sup>2</sup> (6...25 mm <sup>2</sup> ) flexible - with cable end Power circuit screw clamp terminals 2 0.01...0.04 in <sup>2</sup> (6...25 mm <sup>2</sup> ) flexible - with cable end Power circuit screw clamp terminals 1 0.01...0.08 in <sup>2</sup> (6...50 mm <sup>2</sup> ) solid
<b>Tightening torque</b>	Power circuit 53.10 lbf.in (6 N.m) screw clamp terminals
<b>Width</b>	3.54 in (90 mm)
<b>Height</b>	9.57 in (243 mm)
<b>Depth</b>	7.56 in (192 mm)
<b>Product Weight</b>	8.16 lb(US) (3.7 kg)

## Environment

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

<b>Ambient Air Temperature for Operation</b>	-4...140 °F (-20...60 °C)
<b>Ambient Air Temperature for Storage</b>	-40...176 °F (-40...80 °C)
<b>Mechanical robustness</b>	Vibrations de-energised3 Gn, 1...300 Hz Vibrations energised3 Gn, 1...300 Hz Shocks de-energised8 Gn for 11 ms Shocks energised8 Gn for 11 ms
<b>IP degree of protection</b>	IP20 B conforming to IEC 60144 IP20 B conforming to IEC 60529
<b>Operating altitude</b>	9842.52 ft (3000 m) without derating

## Ordering and shipping details

<b>Category</b>	22382-STRS,INTEGRAL 32&63,OPEN
<b>Discount Schedule</b>	I11
<b>GTIN</b>	3389110176513
<b>Returnability</b>	No
<b>Country of origin</b>	FR

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	9.25 in (23.5 cm)
<b>Package 1 Width</b>	5.71 in (14.5 cm)
<b>Package 1 Length</b>	12.20 in (31.0 cm)
<b>Package 1 Weight</b>	9.29 lb(US) (4.213 kg)
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	2
<b>Package 2 Height</b>	11.81 in (30.0 cm)
<b>Package 2 Width</b>	11.81 in (30.0 cm)
<b>Package 2 Length</b>	15.75 in (40.0 cm)
<b>Package 2 Weight</b>	20.15 lb(US) (9.139 kg)

## Offer Sustainability

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

## Contractual warranty

<b>Warranty</b>	18 months
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## Recommended replacement(s)