

# Product data sheet

Specifications



## TeSys F changeover contactor - 4P(4 NO) AC-1 <= 440 V 200 A - without coil

LC2F1154

! To be discontinued on: 31 December 2023

! To be discontinued

### Main

Range	TeSys
Product name	TeSys F
Product or component type	Changeover contactor
Device short name	LC2F
Contactor application	Resistive load
Utilisation category	AC-1
Device presentation	Preambled with reversing power busbar
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	200 A (at <40 °C) at <= 440 V AC AC-1
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	200 A (at 40 °C)
Irms rated making capacity	1150 A AC conforming to IEC 60947-4-1
Rated breaking capacity	920 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1100 A 40 °C - 10 s 640 A 40 °C - 30 s 520 A 40 °C - 1 min 400 A 40 °C - 3 min 320 A 40 °C - 10 min
Associated fuse rating	125 A aM at <= 440 V 200 A gG at <= 440 V
Average impedance	0.37 mOhm - Ith 200 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	15 W AC-1
Interlocking type	Mechanical

<b>Mounting support</b>	Plate
<b>Standards</b>	EN 60947-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-1
<b>Product certifications</b>	CCC RMRoS UL RINA CB ABS LROS (Lloyds register of shipping) CSA DNV UKCA
<b>Connections - terminals</b>	Power circuit: connector 1 cable(s) 95 mm <sup>2</sup> Power circuit: lugs-ring terminals 1 cable(s) 95 mm <sup>2</sup> Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm
<b>Tightening torque</b>	Power circuit: 10 N.m Control circuit: 1.2 N.m

## Environment

<b>IP degree of protection</b>	IP2x front face with shrouds conforming to IEC 60529 IP2x front face with shrouds conforming to VDE 0106
<b>Protective treatment</b>	TH
<b>Ambient air temperature for operation</b>	-5...55 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Permissible ambient air temperature around the device</b>	-40...70 °C
<b>Operating altitude</b>	3000 m without derating
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Mechanical robustness</b>	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 6 Gn, 5...300 Hz Shocks contactor open: 9 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms
<b>Height</b>	162 mm
<b>Width</b>	419 mm
<b>Depth</b>	171 mm
<b>Net weight</b>	8.86 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	22.0 cm
<b>Package 1 Width</b>	36.0 cm
<b>Package 1 Length</b>	53.5 cm
<b>Package 1 Weight</b>	10.225 kg
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	4
<b>Package 2 Height</b>	77.0 cm

Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	49.4 kg

## Offer Sustainability




Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	Yes
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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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## Recommended replacement(s)

LC2F1154 is replaced by the following group of products:

1x		Change-over connection bar, for TeSys Giga contactor LC1G115-225, 4 pole LA9G4750
1x		Mechanical Interlock, for TeSys Giga contactor LC1G115-500, IP20 LA9G970
2x		High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 250A, advanced version, 24...48V wide band AC/DC coil LC1G1154BEEA

Or LC2F1154 is replaced by the following group of products:

1x		Change-over connection bar, for TeSys Giga contactor LC1G115-225, 4 pole LA9G4750
1x		Mechanical Interlock, for TeSys Giga contactor LC1G115-500, IP20 LA9G970

2x



High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 250A, advanced version, 48...130V wide band AC/DC coil

LC1G1154EHEA

Or LC2F1154 is replaced by the following group of products:

1x



Change-over connection bar, for TeSys Giga contactor LC1G115-225, 4 pole

LA9G4750

1x



Mechanical Interlock, for TeSys Giga contactor LC1G115-500, IP20

LA9G970

2x



High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 250A, standard version, 48...130V wide band AC/DC coil

LC1G1154EHEN

Or LC2F1154 is replaced by the following group of products:

1x



Change-over connection bar, for TeSys Giga contactor LC1G115-225, 4 pole

LA9G4750

1x



Mechanical Interlock, for TeSys Giga contactor LC1G115-500, IP20

LA9G970

2x



High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 250A, standard version, 100...250V wide band AC/DC coil

LC1G1154KUEN

Or LC2F1154 is replaced by the following group of products:

1x



Change-over connection bar, for TeSys Giga contactor LC1G115-225, 4 pole

LA9G4750

1x



Mechanical Interlock, for TeSys Giga contactor LC1G115-500, IP20

LA9G970

2x



High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 250A, advanced version, 200...500V wide band AC/DC coil

LC1G1154LSEA