



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactors
Device short name	LC1F
Contactors application	Resistive load
Utilisation category	AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	\leq 1000 V AC 50/60 Hz
[Ie] rated operational current	2600 A (at \leq 60 °C) at \leq 440 V AC AC-1
[Uc] control circuit voltage	220 V DC
Coil type	Standard

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	2600 A (at 60 °C)
Rated breaking capacity	3900 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	12000 A 40 °C - 10 s 9000 A 40 °C - 30 s 7000 A 40 °C - 1 min 6000 A 40 °C - 3 min 4000 A 40 °C - 10 min
Associated fuse rating	2500 A gG at \leq 440 V
Average impedance	0.1 mOhm - Ith 2600 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1
Power dissipation per pole	250 W AC-1
Mounting support	Plate

Standards	IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 EN 60947-4-1 EN 60947-1
Product certifications	CB CSA CETLus CCC
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: bar 3 cable(s) - busbar cross section: 100 x 10 mm
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Control circuit voltage limits	Operational: 0.85...1.1 U _c (at 55 °C) Drop-out: 0.2...0.35 U _c (at 55 °C)
Inrush power in W	2600 W (at 20 °C)
Hold-in power consumption in W	18 W at 20 °C
Heat dissipation	40 W
Operating time	60...70 ms closing 40...50 ms opening
Maximum operating rate	1200 cyc/h 55 °C
Compatibility code	LC1F

Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...60 °C
Operating altitude	3000 m without
Height	382 mm
Width	519 mm
Depth	251 mm
Net weight	36 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Under investigation
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins