



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
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	1600 A (≤ 40 °C) at ≤ 440 V AC AC-1

Complementary




[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1600 A at ≤ 40 °C
Irms rated making capacity	7800 A AC conforming to IEC 60947-4-1
Rated breaking capacity	6240 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	6250 A ≤ 40 °C 10 s 5600 A ≤ 40 °C 30 s 4600 A ≤ 40 °C 1 min 3000 A ≤ 40 °C 3 min 2200 A ≤ 40 °C 10 min
Associated fuse rating	800 A aM at ≤ 440 V 1600 A gG at ≤ 440 V
Average impedance	0.1 mOhm at 50 Hz - Ith 1600 A
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	250 W AC-1

Mounting support	Plate
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1
Product certifications	ABS BV CCC DNV LROS (Lloyds register of shipping) RINA UL CB
Connections - terminals	Power circuit : bolted connection Power circuit : bar 2 x (100 x 5 mm)
Tightening torque	Power circuit : 58 N.m

Environment

IP degree of protection	IP20 front face with shrouds (ordered separately) conforming to IEC 60529 IP20 front face with shrouds (ordered separately) conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations resistance contactor open 2.5 Gn, 5...300 Hz Vibrations resistance contactor closed 5.5 Gn, 5...300 Hz Shocks resistance contactor closed 15 Gn for 1/2 sine wave (11 ms) Shocks resistance contactor open 5 Gn for 1/2 sine wave (11 ms)
Height	434 mm
Width	862 mm
Depth	255 mm
Product weight	48 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0852 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available  Product Environmental Profile
Product end of life instructions	Available  End of Life Information

Contractual warranty

Warranty period	18 months
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