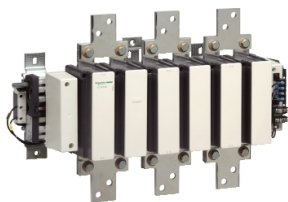


Product datasheet

Specifications



Contactor body, TeSys F, 4P(4 NO), AC-1 $\leq 1000\text{ V}$ 1600 A(3P) 1000 A(N), without coil

LC1F78040

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

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	$\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 460\text{ V DC}$
[Ie] rated operational current	For phase - 1600 A (at $\leq 40\text{ }^{\circ}\text{C}$) at $\leq 1000\text{ V AC AC-1}$ for secondary circuit For neutral - 1000 A (at $\leq 40\text{ }^{\circ}\text{C}$) at $\leq 1000\text{ V AC AC-1}$ for secondary circuit

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1600 A (at $40\text{ }^{\circ}\text{C}$)
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	3000 A $40\text{ }^{\circ}\text{C}$ - 3 min 6250 A $40\text{ }^{\circ}\text{C}$ - 10 s 5600 A $40\text{ }^{\circ}\text{C}$ - 30 s 4600 A $40\text{ }^{\circ}\text{C}$ - 1 min 2200 A $40\text{ }^{\circ}\text{C}$ - 10 min
Associated fuse rating	800 A aM at $\leq 440\text{ V}$ 1600 A gG at $\leq 440\text{ V}$
Average impedance	0.1 mOhm - Ith 1600 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	250 W AC-1
Mounting support	Plate
Standards	IEC 60947-1 JIS C8201-4-1 EN 60947-1 EN 60947-4-1 IEC 60947-4-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Product certifications	CB ABS DNV RINA LROS (Lloyds register of shipping) CCC BV UL
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm
Tightening torque	Power circuit: 58 N.m
Mechanical durability	5 Mcycles
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...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C at Uc
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations contactor open: 2.5 Gn, 5...300 Hz Vibrations contactor closed: 5.5 Gn, 5...300 Hz Shocks contactor open: 5 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	434 mm
Width	862 mm
Depth	250 mm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Longer



Lifetime extension

Repair

No