

## LC1F500R7

sklopnik TeSys F – 3P (3 NO) – AC-3 – ≤ 440 V  
500 A – zavojnica 440 V AC



### Glavno

Range	TeSys
Product name	TeSys F
Product or component type	Contactora
Device short name	LC1F
Contactora application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Ie] rated operational current	700 A (≤ 40 °C) at ≤ 440 V AC AC-1 500 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	250 kW at 380...400 V AC 50/60 Hz AC-3 280 kW at 415 V AC 50/60 Hz AC-3 295 kW at 440 V AC 50/60 Hz AC-3 355 kW at 500 V AC 50/60 Hz AC-3 335 kW at 1000 V AC 50/60 Hz AC-3 147 kW at 220...230 V AC 50/60 Hz AC-3 80 kW at 400 V AC 50/60 Hz AC-4 335 kW at 660...690 V AC 50/60 Hz AC-3
[Uc] control circuit voltage	440 V AC 40...400 Hz

### Komplementarno

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	700 A at ≤ 40 °C
Rated breaking capacity	4000 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	4200 A ≤ 40 °C 10 s 3200 A ≤ 40 °C 30 s 2400 A ≤ 40 °C 1 min 1500 A ≤ 40 °C 3 min 1200 A ≤ 40 °C 10 min
Associated fuse rating	500 A aM at ≤ 440 V 800 A gG at ≤ 440 V
Average impedance	0.18 mOhm at 50 Hz - Ith 700 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	45 W AC-3 88 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)

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RINA  
RMRoS  
UL  
CB

Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit: lugs-ring terminals 2 cable(s) 240 mm <sup>2</sup> Power circuit: bolted connection Power circuit : bar 2 x (40 x 5 mm)
Tightening torque	Power circuit: 35 N.m Control circuit: 1.2 N.m
Control circuit voltage limits	0.85...1.1 Uc at 55 °C operational 40...400 Hz 0.3...0.5 Uc at 55 °C drop-out 40...400 Hz
Inrush power in VA	1100 VA at 20 °C (cos φ 0.9) 40...400 Hz
Hold-in power consumption in VA	18 VA at 20 °C (cos φ 0.9) 40...400 Hz
Heat dissipation	18 W
Operating time	100...170 ms opening 40...65 ms closing
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at ≤ 55 °C

## Okolina

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 Gn, 5...300 Hz Shocks resistance contactor open 9 Gn for 11 ms Shocks resistance contactor closed 15 Gn for 11 ms Vibrations resistance contactor closed 4 Gn, 5...300 Hz
height	238 mm
width	233 mm
depth	232 mm
product weight	11.35 kg

## Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0843 - Schneider Electric declaration of conformity	Compliant - since 0843 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available

## Contractual warranty

Warranty period	18 months
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