

LC1FDP1154A

Robusta F-Range contactor - 4P(4 NO)

200 A - AC-1

115 A - AC-3

Main

Range	Robusta
Product name	F-Range
Product or component type	Contactor
Device short name	LC1FDP
Contactor application	Resistive load Motor Control
Utilisation category	AC-1 AC-3
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz
[Ie] rated operational current	200A (at $\theta \leq 40^\circ\text{C}$) at ≤ 440 V AC-1 115A (at $\theta \leq 55^\circ\text{C}$) at ≤ 440 V AC-3
[Uc] control circuit voltage	48...500 V AC 40...400 Hz with LX9FF coil 24...440 V DC with LX4FF coil 24...550 V AC 50/60 Hz with LX1FF coil
[Uimp] rated impulse withstand voltage	8kV
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1
Overvoltage category	III
[Ith] conventional free air thermal current	200A (at $\theta \leq 40^\circ\text{C}$)
Irms rated making capacity	1300A conforming to IEC 60947-4-1
Rated breaking capacity	1300A at 220...415V conforming to IEC 60947-4-1 1100A at 500V conforming to IEC 60947-4-1 900A at 660...690V conforming to IEC 60947-4-1 400A at 1000V conforming to IEC 60947-4-1
[Icw] rated short-time withstand current from cold state, no current flowing for preceding 60 minutes	1100A at $\theta \leq 40^\circ\text{C}$ - 10 s 640A at $\theta \leq 40^\circ\text{C}$ - 30 s 520A at $\theta \leq 40^\circ\text{C}$ - 1 min 400A at $\theta \leq 40^\circ\text{C}$ - 3 min 320A at $\theta \leq 40^\circ\text{C}$ - 10 min
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
Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 6 Gn, 5...300 Hz Shocks contactor open: 9 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 13 Gn for 1/2 sine wave (11 ms)
Associated fuse rating	200A gG at ≤ 440 V
Average impedance per pole	0.40mOhm - Ith 200A 50 Hz
[Ui] rated insulation voltage	1000V conforming to IEC 60947-4-1
Power dissipation per pole	18W AC-1 6W AC-3
Control circuit voltage limits	Operational: 0.85...1.1 Uc
Mounting support	Plate
Standards	EN 60947-4-1 IEC 60947-4-1 EN 60947-1 IEC 60947-1

Connections - terminals	Power circuit: lugs-ring terminals 1 cable(s) 95mm ² Power circuit: connector 1 cable(s) 95mm ² Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm Control circuit: screw clamp terminals 1 cable(s) 1...4mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...4mm ² solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4mm ² flexible without cable end
Tightening torque	Power circuit: 10N.m Control circuit: 1.2N.m
Maximum operating rate	2400cyc/h at $\theta \leq 55^{\circ}\text{C}$
Mechanical Durability (in millions of operating cycles)	10
Maximum operating altitude	3000 m without derating
Operating positions	$\pm 30^{\circ}$ possible, in relation to normal vertical mounting plane
IP degree of protection	IP 20 front face with shrouds* conforming to IEC 60529
Height	162mm
Width	200.5mm
Depth	175mm

*To be ordered separately