



### Main

Range	F Range
Product or component type	Contacteur
Device short name	LC1FDP
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC
[Ie] rated operational current	185 A (<= 55 °C) at <= 440 V AC AC-3 275 A (<= 40 °C) at <= 440 V AC AC-1
Motor power kW	55 kW at 220...240 V AC 50/60 Hz 90 kW at 380...400 V AC 50/60 Hz 100 kW at 415 V AC 50/60 Hz 110 kW at 400...500 V AC 50/60 Hz 110 kW at 660...690 V AC 50/60 Hz 100 kW at 1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	275 A at <= 40 °C
Irms rated making capacity	2100 A AC conforming to IEC 60947-4-1
Rated breaking capacity	1800 A conforming to IEC 60947 -4-1
Short time ratings from cold state, no current flowing for preceding 60 minutes. $\theta \leq 40^\circ\text{C}$ (104 °F)	18000 A <= 40 °C 10 s 920 A <= 40 °C 30 s 740 A <= 40 °C 1 min 500 A <= 40 °C 3 min 400 A <= 40 °C 10 min
Associated fuse rating	200 A aM at <= 440 V 315 A gG at <= 440 V
Average impedance	0.36 mOhm at 50 Hz - Ith 400 A
[Ui] rated insulation voltage	1000 V conforming to IEC 60947 -4-1
Power dissipation per pole	12 W AC-3 26 W AC-1
Mounting support	Plate
Standards	EN 60947 -1 EN 60947 -4-1 IEC 60947 -1 IEC 60947 -4-1
Product certifications	CCC CSA UL

Connections - terminals	Power circuit : lugs -ring terminals 1 cable(s) 150 mm <sup>2</sup> Power circuit : bar 2 x ( 25 x 3 mm)
Tightening torque	Power circuit : 18 N.m Control circuit : 1.2 N.m
Inrush power in VA	805 VA at 20°C (cos φ 0.9)
Sealed power in VA	55 VA at 20°C (cos φ 0.9)
Operating time	18 - 24 ms on closing time 20-35 ms on opening time
Operating rate	2400 cyc/h

## Complementary

## Environment

IP degree of protection	IP 20 front face with cover conforming to IEC 60529 with LA9F703 IP 20 front face with cover conforming to VDE 0106 with LA9F703
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
Height	181 mm
Width	168.5 mm
Depth	174 mm



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