

# LC1F780

TeSys F contactor - 3P(3 NO) - AC-3 - <= 440 V 780 A - without coil



## Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur 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	1600 A (<= 40 °C) at <= 440 V AC AC-1 780 A (<= 55 °C) at <= 440 V AC AC-3
Motor power kW	400 kW at 380...400 V AC 50/60 Hz AC-3 425 kW at 415 V AC 50/60 Hz AC-3 450 kW at 1000 V AC 50/60 Hz AC-3 425 kW at 440 V AC 50/60 Hz AC-3 450 kW at 500 V AC 50/60 Hz AC-3 110 kW at 400 V AC 50/60 Hz AC-4 220 kW at 220...240 V AC 50/60 Hz AC-3 475 kW at 660...690 V AC 50/60 Hz AC-3

## 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 60 W AC-3
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

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UL  
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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	Shocks resistance contactor closed 15 Gn for 11 ms Vibrations resistance contactor open 2.5 Gn, 5...300 Hz Vibrations resistance contactor closed 5.5 Gn, 5...300 Hz Shocks resistance contactor open 5 Gn for 11 ms
height	434 mm
width	702 mm
depth	255 mm
product weight	48 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0843 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available