

# Product data sheet

## Characteristics

# LC1F780G7

## TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 780 A - coil 120 V AC



Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 7788.00 USD



### Main

Range of product	TeSys F
Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
System Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	1600 A (<= 104 °F (40 °C)) at <= 440 V AC AC-1 780 A (<= 131 °F (55 °C)) at <= 440 V AC AC-3
Motor power kW	220 kW at 220...230 V AC 50/60 Hz AC-3 400 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-4 475 kW at 660...690 V AC 50/60 Hz AC-3
Control circuit type	AC 40...400 Hz
[Uc] control circuit voltage	120 V AC 40...400 Hz

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## Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1600 A at $\leq 104$ °F (40 °C)
Rated breaking capacity	6240 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	6250 A $\leq 104$ °F (40 °C) 10 s 5600 A $\leq 104$ °F (40 °C) 30 s 4600 A $\leq 104$ °F (40 °C) 1 min 3000 A $\leq 104$ °F (40 °C) 3 min 2200 A $\leq 104$ °F (40 °C) 10 min
Associated fuse rating	800 A aM at $\leq 440$ V 1600 A gG at $\leq 440$ 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	IEC 60947-4-1 EN 60947-1 EN 60947-4-1 JIS C8201-4-1 IEC 60947-1
Product certifications	CCC BV CB LROS (Lloyds register of shipping) ABS DNV RMRoS UL RINA
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 0...0 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid - without cable end Power circuit: bolted connection Power circuit: bar 2 x (100 x 5 mm)
Tightening torque	Control circuit: 10.62 lbf.in (1.2 N.m) Power circuit: 513.27 lbf.in (58 N.m)
Control circuit voltage limits	0.85...1.1 Uc at 131 °F (55 °C) operational 40...400 Hz 0.2...0.4 Uc at 131 °F (55 °C) drop-out 40...400 Hz
Inrush power in VA	2100 VA at 68 °F (20 °C) (cos $\phi$ 0.9) 40...400 Hz
Hold-in power consumption in VA	50 VA at 68 °F (20 °C) (cos $\phi$ 0.9) 40...400 Hz
Heat dissipation	44 W
Operating time	130...230 ms opening 40...80 ms closing
Mechanical durability	5 Mcycles
Operating rate	600 cyc/h at $\leq 131$ °F (55 °C)
Compatibility code	LC1F

## 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	23...131 °F (-5...55 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Height	17.09 in (434 mm)
Width	27.64 in (702 mm)
Depth	10.04 in (255 mm)
Product weight	87.08 lb(US) (39.5 kg)

## Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901486411
Nbr. of units in pkg.	1
Package weight(Lbs)	112.33
Returnability	N
Country of origin	CZ

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0843 - Schneider Electric declaration of conformity <a href="#">Schneider-Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
----- More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

Warranty period	18 months
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Product Life Status : **Commercialised**