

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
System Voltage	<= 690 V AC 50/60 Hz
[Ie] rated operational current	275 A (<= 40 °C) at <= 440 V AC-1 185 A (<= 55 °C) at <= 440 V AC-3
Motor power kW	90 kW at 380...400 V AC 50/60 Hz AC-3 100 kW at 415 V AC 50/60 Hz AC-3 100 kW at 415 V AC 50/60 Hz AC-3 100 kW at 440 V AC 50/60 Hz AC-3 110 kW at 500 V AC 50/60 Hz AC-3 110 kW at 660...690 V AC 50/60 Hz AC-3 33 kW at 400 V AC 50/60 Hz AC-4 55 kW at 220...240 V AC 50/60 Hz AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	275 A at <= 104 °F (40 °C)
Irms rated making capacity	1850 A conforming to IEC 60947-4-1
Rated breaking capacity	1480 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1500 A <= 104 °F (40 °C) 10 s 920 A <= 104 °F (40 °C) 30 s 740 A <= 104 °F (40 °C) 1 min 500 A <= 104 °F (40 °C) 3 min 400 A <= 104 °F (40 °C) 10 min
Associated fuse rating	200 A aM at <= 440 V 315 A gG at <= 440 V
Average impedance	0.33 mOhm at 50 Hz - Ith 275 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	12 W AC-3 25 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 CSA DNV LROS (Lloyds register of shipping) RINA RMRoS UL CB

Connections - terminals	Power circuit: connector 1 cable(s) 0.23 in ² (150 mm ²) Power circuit: lugs-ring terminals 1 cable(s) 0.23 in ² (150 mm ²) Power circuit : bolted connection Power circuit : bar 2 x (25 x 3 mm)
Tightening torque	Power circuit: 159.29 lbf.in (18 N.m)

Environment

IP degree of protection	IP2x front face with shrouds (ordered separately) conforming to IEC 60529 IP2x 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
mechanical robustness	Vibrations resistance contactor open 2 Gn, 5...300 Hz Shocks resistance contactor closed 15 Gn for 11 ms Vibrations resistance contactor closed 5 Gn, 5...300 Hz Shocks resistance contactor open 7 Gn for 11 ms
height	6.85 in (174 mm)
width	6.63 in (168.5 mm)
depth	7.13 in (181 mm)
product weight	12.02 lb(US) (5.45 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
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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