Product data sheet Characteristics

LC1F265M7

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 265 A - coil 220 V AC





Main

IVIAIII	
Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Motor power kW	132 kW at 380400 V AC 50/60 Hz AC-3 140 kW at 415 V AC 50/60 Hz AC-3 140 kW at 440 V AC 50/60 Hz AC-3 160 kW at 500 V AC 50/60 Hz AC-3 160 kW at 660690 V AC 50/60 Hz AC-3 147 kW at 1000 V AC 50/60 Hz AC-3 75 kW at 220230 V AC 50/60 Hz AC-3 51 kW at 400 V AC 50/60 Hz AC-4
Control circuit type	AC 40400 Hz
Control circuit voltage	220 V AC 40400 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[lth] conventional free air thermal current	350 A at <= 40 °C
Irms rated making capacity	2650 A AC conforming to IEC 60947-4-1
Rated breaking capacity	2120 A conforming to IEC 60947-4-1
[lcw] rated short-time withstand current	2200 A <= 40 °C 10 s 1230 A <= 40 °C 30 s 950 A <= 40 °C 1 min 620 A <= 40 °C 3 min 480 A <= 40 °C 10 min
Associated fuse rating	315 A aM at <= 440 V 400 A gG at <= 440 V
Average impedance	0.3 mOhm at 50 Hz - Ith 350 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	21 W AC-3 37 W AC-1
Mounting support	Plate
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038
Product certifications	BV CCC CSA DNV GL RINA RMRoS UL LROS
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 240 mm² Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: lugs-ring terminals 1 cable(s) 240 mm² Power circuit: bar 2 x (32 x 4 mm) Power circuit: bolted connection
Tightening torque	Power circuit : 35 N.m Control circuit : 1.2 N.m
Operating time	100170 ms opening 4065 ms closing
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at <= 55 °C
Complementary 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
[le] rated operational current	350 A (<= 40 °C) at <= 440 V AC AC-1 265 A (<= 55 °C) at <= 440 V AC AC-3
Control circuit voltage limits	0.851.1 Uc at 55 °C operational 40400 Hz 0.150.2 Uc at 55 °C drop-out 40400 Hz
Inrush power in VA	650 VA at 20 °C (cos φ 0.9) 40400 Hz
Hold-in power consumption in VA	10 VA at 20 °C (cos φ 0.9) 40400 Hz
Heat dissipation	8 W

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	-555 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Operating altitude	3000 m without derating in temperature
Mechanical robustness	Vibrations contactor closed 5 Gn, 5300 Hz

	Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms
Height	203 mm
Width	201.5 mm
Depth	213 mm
Product weight	7 44 ka

Vibrations contactor open 2 Gn, 5...300 Hz

Offer Sustainability

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

Contractual warranty

Warranty period	18 months	