

Product Datasheet

Characteristic

LC1F330

TeSys F contactor - 3P(3 NO) - AC-3 - \leq 440 V 330 A - without coil



Main

range	TeSys
product name	TeSys F
product or component type	contactor
device short name	LC1F
contactor application	motor control resistive load
utilisation category	AC-1 AC-3
poles description	3P
pole contact composition	3 NO
System Voltage	\leq 1000 V AC 50/60 Hz \leq 460 V DC
[Ie] rated operational current	400 A (\leq 104 °F (40 °C)) at \leq 440 V AC AC-1 330 A (\leq 131 °F (55 °C)) at \leq 440 V AC AC-3
motor power kW	160 kW at 1000 V AC 50/60 Hz 160 kW at 380...400 V AC 50/60 Hz 180 kW at 415 V AC 50/60 Hz 200 kW at 440 V AC 50/60 Hz 200 kW at 500 V AC 50/60 Hz 100 kW at 220...240 V AC 50/60 Hz 220 kW at 660...690 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
overvoltage category	III
[Ith] conventional free air thermal current	400 A at \leq 104 °F (40 °C)
Irms rated making capacity	3300 A AC conforming to IEC 60947-4-1
rated breaking capacity	2640 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	2650 A \leq 104 °F (40 °C) 10 s 1800 A \leq 104 °F (40 °C) 30 s 1300 A \leq 104 °F (40 °C) 1 min 900 A \leq 104 °F (40 °C) 3 min 750 A \leq 104 °F (40 °C) 10 min
associated fuse rating	400 aM at \leq 440 V 500 aG at \leq 440 V
average impedance	0.28 mOhm at 50 Hz - Ith 400 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	44 W AC-1 31 W AC-3
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	power circuit: lugs-ring terminals 1 cable(s) 0.37 in ² (240 mm ²) power circuit: bar 2 x (30 x 5 mm)
tightening torque	power circuit: 309.73 lbf.in (35 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	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 in temperature
mechanical robustness	vibrations contactor open 2 Gn, 5...300 Hz shocks contactor closed 15 Gn for 11 ms shocks contactor open 6 Gn for 11 ms vibrations contactor closed 5 Gn, 5...300 Hz
height	8.11 in (206 mm)
width	8.39 in (213 mm)
depth	8.62 in (219 mm)
product weight	20.94 lb(US) (9.5 kg)

Offer Sustainability

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

Contractual warranty

Warranty period	18 months
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