Product data sheet Characteristics

LC1F150BD

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 250 A - coil 24 V DC





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	
Power pole contact composition	3 NO	
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz	
[le] rated operational current	250 A (at <40 °C) at <= 440 V AC-1 150 A (at <55 °C) at <= 440 V AC-3	
Motor power kW	75 kW at 380400 V AC 50/60 Hz (AC-3) 80 kW at 415 V AC 50/60 Hz (AC-3) 80 kW at 440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 660690 V AC 50/60 Hz (AC-3) 40 kW at 220230 V AC 50/60 Hz (AC-3) 22 kW at 400 V AC 50/60 Hz (AC-4)	
[Uc] control circuit voltage	24 V DC	
Coil type	Standard	

Complementary

Complementary	
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[lth] conventional free air thermal current	250 A (at 40 °C)
Rated breaking capacity	1200 A conforming to IEC 60947-4-1

[lcw] rated short-time withstand current	1200 A 40 °C - 10 s 700 A 40 °C - 30 s 600 A 40 °C - 1 min 450 A 40 °C - 3 min 350 A 40 °C - 10 min
Associated fuse rating	160 A aM at <= 440 V 250 A gG at <= 440 V
Average impedance	0.35 mOhm - Ith 250 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	22 W AC-1 8 W AC-3
Mounting support	Plate
Standards	EN 60947-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 EN 60947-4-1
Product certifications	BV RMRoS ABS RINA UL CCC CB LROS (Lloyds register of shipping) DNV
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 25 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 120 mm² Power circuit: connector 1 cable(s) 120 mm² Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 18 N.m
Control circuit voltage limits	Operational: 0.851.1 Uc (at 55 °C) Drop-out: 0.150.2 Uc (at 55 °C)
Inrush power in W	560 W (at 20 °C)
Hold-in power consumption in W	4.5 W at 20 °C
Heat dissipation	4.5 W
Operating time	3040 ms closing 3050 ms opening
Mechanical durability	10 Mcycles
Maximum operating rate	2400 cyc/h 55 °C
Compatibility code	LC1F

Environment

IP degree of protection	IP2x front face with shrouds conforming to IEC 60529 IP2x front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-4060 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	6070 °C at Uc
Operating altitude	3000 m without derating
Height	170 mm
Width	163.5 mm
Depth	171 mm

Net weight	3.43 kg	
Packing Units		
Package 1 Weight	4.245 kg	
Package 1 Height	2.150 dm	
Package 1 width	2.000 dm	
Package 1 Length	2.400 dm	
Offer Sustainability		
Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Environmental Disclosure	onmental Disclosure Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
California proposition 65	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. For more information go to www.P65Warnings.ca.gov	

Warranty	18 months