Product data sheet
Characteristics

LC1E0901B5
Contactor,Easy TeSys Control,LC1E,3P(3NO),AC-3/AC-3e,<=440V,9A,24V AC coil,50Hz,1NC auxiliary contact



Main

Range	Easy TeSys
Range of product	Easy TeSys Control
Product or component type	Contactor
Device short name	LC1E
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-3e AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz
[Ie] rated operational current	9 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 9 A (at <55 °C) at <= 440 V AC AC-3e for power circuit 25 A (at <55 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	24 V AC 50 Hz

Complementary

Motor power kW	2.2 KW at 220/230 V AC 50/60 Hz 4 KW at 380/400 V AC 50/60 Hz 4 KW at 415/440 V AC 50/60 Hz 4 KW at 500 V AC 50/60 Hz 4 KW at 660/690 V AC 50/60 Hz 5.5 KW at 660...690 V AC 50/60 Hz
Pole contact composition	3 NO
[Ith] conventional free air thermal current	25 A (at 55 °C) for power circuit
Irms rated making capacity	117 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	76.5 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	105 A 40 °C - 10 s for power circuit 61 A 40 °C - 60 s for power circuit 30 A 40 °C - 600 s for power circuit
Associated fuse rating	20 A gG at <= 690 V coordination type 1 for power circuit 10 A gG at <= 690 V for auxiliary contact circuit conforming to IEC 60947-5-1
Average impedance	2.5 MOhm - Ith 25 A 50 Hz for power circuit
Power dissipation per pole	0.2 W AC-3 1.6 W AC-1
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 KV coil not connected to the power circuit conforming to IEC 60947

Mechanical durability	10000000 Cycles
Electrical durability	1400000 Cycles AC-3 150000 Cycles AC-1
Control circuit type	AC at 50 Hz
Control circuit voltage limits	0.85...1.1 Uc (-5…55 °C):operational 50 Hz 0.3...0.6 Uc (-5…55 °C):drop-out 50 Hz
Inrush power in VA	95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	8.3 VA 50 Hz cos phi 0.3 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	2…3 W for control circuit
Operating time	12...22 ms on closing 4...19 ms on opening
Maximum operating rate	1800 Cyc/H 60 °C
Connections - terminals	Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid without cable end
Tightening torque	Power circuit: 1.2 N.m Control circuit: 1.2 N.m
Auxiliary contact composition	1 NC
Minimum switching voltage	17 V for auxiliary contact circuit
Minimum switching current	5 MA for auxiliary contact circuit
Insulation resistance	> 10 MOhm for auxiliary contact circuit
Non-overlap time	1.5 Ms on energisation guaranteed between NC and NO contact 1.5 Ms on de-energisation guaranteed between NC and NO contact
Mounting support	DIN rail Plate

Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 GB/T 14048.1 GB/T 14048.4 GB/T 14048.5 EN/IEC 60335-1:Clause 30.2 EN/IEC 60335-2-40:Annex JJ IS/IEC 60947-1 IS/IEC 60947-4-1 IS/IEC 60947-5-1
Product certifications	CB Scheme[RETURN]CCC[RETURN]CE[RETURN]EAC[RETURN]BIS
IP degree of protection	IP2X conforming to IEC 60529
Protective treatment	TH (pollution degree 3) conforming to IEC 60068-2-30
Permissible ambient air temperature around the device	-20…70 °C at Uc -60…80 °C storage -5…55 °C operation
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations contactor open (1.5 Gn, 5...300 Hz) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor open (7 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms)
Height	74 Mm
Width	45 Mm
Depth	80 Mm
Net weight	0.3 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.000 Cm
Package 1 Width	7.500 Cm
Package 1 Length	8.500 Cm
Package 1 Weight	352.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	36
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	12.960 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	576
Package 3 Height	75.000 Cm
Package 3 Width	60.000 Cm
Package 3 Length	80.000 Cm
Package 3 Weight	215.360 Kg

Offer Sustainability

Recyclability potential, in %	14
Total lifecycle Carbon footprint	387 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	3.5442678470820654
Carbon footprint of the manufacturing phase [A1 to A3]	4 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.36928202471302995
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00022433167172689275
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	382.92552702172793
Carbon footprint of the use phase [B2, B3, B4, B6]	383 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.5008459640692418
Carbon footprint of the end-of-life phase [C1 to C4]	0.5 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	387
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	E555d54e-f8a3-45c7-9bb0-e1481cefbd00
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised