



# EasyPact TVS contactor 3P(3 NO) -AC-3 - <= 440 V 38A - 24 V AC coil

LC1E3801B5

Discontinued on: 01 November 2020

### ① Discontinued

١	V	la	ı	n	

Range	EasyPact	
Product or component type	Contactor	
Device short name	LC1E	
Contactor application	Resistive load Motor control	
Utilisation category	AC-3 AC-1	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz	
[le] rated operational current	50 A (at <55 °C) at <= 440 V AC AC-1 for power circuit 38 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	
[Uc] control circuit voltage	24 V AC 50 Hz	

Motor power kW	18.5 kW at 500 V AC 50/60 Hz (AC-3)
	18.5 kW at 660690 V AC 50/60 Hz (AC-3)
	9 kW at 220230 V AC 50/60 Hz (AC-3)
	18.5 kW at 380400 V AC 50/60 Hz (AC-3)
	18.5 kW at 415 V AC 50/60 Hz (AC-3)
	18.5 kW at 440 V AC 50/60 Hz (AC-3)
Pole contact composition	3 NO
[Ith] conventional free air	50 A (at 55 °C)
thermal current	
Irms rated making capacity	380 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	304 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand	60 A 40 °C - 600 s for power circuit
current	310 A 40 °C - 10 s for power circuit
current	150 A 40 °C - 60 s for power circuit
Associated fuse rating	10 A gG at <= 690 V coordination type 1 for control circuit conforming to IEC 60947-5-1
, 10000141014 14100 1411119	63 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	2.5 mOhm - Ith 50 A 50 Hz for power circuit
Power dissipation per pole	2.9 W AC-3
	5 W AC-1
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1

Voltage  Mechanical durability  Electrical durability  Control circuit type  Control circuit voltage limits  Inrush power in VA  Hold-in power consumption in	6 kV coil not connected to the power circuit conforming to IEC 60947  8000000 cycles  350000 cycles AC-1 900000 cycles AC-3  AC at 50 Hz  0.851.1 Uc (55 °C):operational 50 Hz 0.30.6 Uc (55 °C):drop-out 50 Hz  95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.3 (at 20 °C)  8.3 VA 50 Hz cos phi 0.3 (at 20 °C)  8.5 VA 60 Hz cos phi 0.3 (at 20 °C)
Electrical durability  Control circuit type  Control circuit voltage limits  Inrush power in VA  Hold-in power consumption in	350000 cycles AC-1 900000 cycles AC-3  AC at 50 Hz  0.851.1 Uc (55 °C):operational 50 Hz 0.30.6 Uc (55 °C):drop-out 50 Hz  95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.75 (at 20 °C) 8.3 VA 50 Hz cos phi 0.3 (at 20 °C)
Control circuit type  Control circuit voltage limits  Inrush power in VA  Hold-in power consumption in	900000 cycles AC-3  AC at 50 Hz  0.851.1 Uc (55 °C):operational 50 Hz 0.30.6 Uc (55 °C):drop-out 50 Hz  95 VA 50 Hz cos phi 0.75 (at 20 °C)  95 VA 60 Hz cos phi 0.75 (at 20 °C)  8.3 VA 50 Hz cos phi 0.3 (at 20 °C)
Control circuit voltage limits  Inrush power in VA  Hold-in power consumption in	0.851.1 Uc (55 °C):operational 50 Hz 0.30.6 Uc (55 °C):drop-out 50 Hz  95 VA 50 Hz cos phi 0.75 (at 20 °C)  95 VA 60 Hz cos phi 0.75 (at 20 °C)  8.3 VA 50 Hz cos phi 0.3 (at 20 °C)
Inrush power in VA SHOID-IN POWER CONSUMPTION IN	0.30.6 Uc (\$5 °C):drop-out 50 Hz  95 VA 50 Hz cos phi 0.75 (at 20 °C)  95 VA 60 Hz cos phi 0.75 (at 20 °C)  8.3 VA 50 Hz cos phi 0.3 (at 20 °C)
Hold-in power consumption in	95 VA 60 Hz cos phi 0.75 (at 20 °C) 8.3 VA 50 Hz cos phi 0.3 (at 20 °C)
VA	
Heat dissipation 2	23 W for control circuit
- 1	1222 ms on closing 419 ms on opening
Maximum operating rate	1800 cyc/h 60 °C
( ( ( ( F F F	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1.56 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 16 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible with cable end
ggq	Control circuit: 1.2 N.m Power circuit: 2.1 N.m
Auxiliary contact composition	1 NC
Minimum switching voltage	17 V for control circuit
Minimum switching current 5	5 mA for control circuit
Insulation resistance	> 10 MOhm for control circuit
	1.5 ms on energisation guaranteed between NC and NO contact 1.5 ms on de-energisation guaranteed between NC and NO contact
	DIN rail Plate
Environment	
I	IEC 60947-4-1 IEC 60947-1 IEC 60947-5-1
Product certifications	EAC
IP degree of protection	IP2X conforming to IEC 60529
Protective treatment	TH (pollution degree 3) conforming to IEC 60068-2-30 test Db
temperature around the device	-2070 °C at Uc -6080 °C storage -555 °C operation
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
\	Vibrations contactor open (1.5 Gn, 5300 Hz) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor closed (10 Gn for 11 ms) Shocks contactor open (6 Gn for 11 ms)
Height	84 mm
Width 5	56 mm
Depth 8	86 mm

Net weight 0.45 kg

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1

# Offer Sustainability

Sustainable offer status	Green Premium product		
REACh free of SVHC	Yes		
EU RoHS Directive	Compliant EU RoHS Declaration		
Toxic heavy metal free	Yes		
Mercury free	Yes		
China RoHS Regulation	China RoHS declaration		
RoHS exemption information	Yes		
Environmental Disclosure	Product Environmental Profile		
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		

# **Contractual warranty**

Warranty 18 months

### Recommended replacement(s)

LC1E3801B5 is replaced by:

1x

EasyPact TVS contactor 3P(3 NO) - AC-3 -  $\leq$  440 V 38A - 24 V AC coil LC1E3801B7