

# Contactor, TeSys K, 3P, AC-3/ AC-3e, 440V, 12A, 1NO aux, 24V DC low consumption coil

LP4K12105BW3

#### Main

Range	TeSys	
Product Or Component Type	Contactor	
Device Short Name	LP4K	
Contactor Application	Motor control Resistive load	

### Complementary

Complementary	
Utilisation Category	AC-3
	AC-3e
	AC-1
	AC-4
Poles Description	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC <= 400 Hz
	Signalling circuit: <= 690 V AC <= 400 Hz
[le] Rated Operational Current	12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
	12 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
	20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit
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Control Circuit Type	DC wide range
[Uc] Control Circuit Voltage	24 V DC
Motor Power Kw	3 kW at 220230 V AC 50/60 Hz AC-3
	5.5 kW at 380415 V AC 50/60 Hz AC-3
	5.5 kW at 440 V AC 50/60 Hz AC-3
	4 kW at 690 V AC 50/60 Hz AC-3
	3 kW at 220230 V AC 50/60 Hz AC-3e
	5.5 kW at 380415 V AC 50/60 Hz AC-3e
	5.5 kW at 440 V AC 50/60 Hz AC-3e
	4 kW at 690 V AC 50/60 Hz AC-3e
	3 kW at 220230 V AC 50/60 Hz AC-4
	5.5 kW at 380415 V AC 50/60 Hz AC-4
	5.5 kW at 440 V AC 50/60 Hz AC-4
Auxiliary Contact Composition	1 NO
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air	20 A (at 60 °C) for power circuit
Thermal Current	10 A (at 50 °C) for signalling circuit
	10 / (at 50 G) for signaling or out
Irms Rated Making Capacity	144 A AC for power circuit conforming to IEC 60947
	110 A AC for signalling circuit conforming to IEC 60947
	. 10 / 1/10 . 5. 5. 5. Signaling of four confidentials to 12 0 000 fr
Rated Breaking Capacity	110 A at 440 V conforming to IEC 60947
	80 A at 500 V conforming to IEC 60947
	70 A at 660690 V conforming to IEC 60947

[Icw] Rated Short-Time Withstand Current	115 A 50 °C - 1 s for power circuit 105 A 50 °C - 5 s for power circuit 100 A 50 °C - 10 s for power circuit 75 A 50 °C - 30 s for power circuit 55 A 50 °C - 1 min for power circuit 50 A 50 °C - 3 min for power circuit 25 A 50 °C - >= 15 min for power circuit 80 A - 1 s for signalling circuit 90 A - 500 ms for signalling circuit 110 A - 100 ms for signalling circuit
Associated Fuse Rating	25 A gG at <= 440 V for power circuit 25 A aM for power circuit 10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660
Average Impedance	3 mOhm - Ith 20 A 50 Hz for power circuit
[Ui] Rated Insulation Voltage	Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-5-1 Signalling circuit: 600 V conforming to UL 508 Power circuit: 600 V conforming to CSA C22.2 No 14 Signalling circuit: 600 V conforming to CSA C22.2 No 14
Insulation Resistance	> 10 MOhm for signalling circuit
Inrush Power In W	1.8 W (at 20 °C)
Hold-In Power Consumption In W	1.8 W at 20 °C
Heat Dissipation	1.8 W
Control Circuit Voltage Limits	Operational: 0.71.3 Uc (at <50 °C) Drop-out: >= 0.10 Uc (at <50 °C)
Connections - Terminals	Solder pins (external diameter: 0.035 mm)
Maximum Operating Rate	3600 cyc/h
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Auxiliary Contacts Type	type instantaneous 1 NO
Minimum Switching Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V for signalling circuit
Mounting Support	Printed circuit boards
Operating Time	1020 ms coil de-energisation and NO opening 3040 ms coil energisation and NO closing
Safety Reliability Level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical Durability	30 Mcycles
Electrical Durability	1.3 Mcycles 12 A AC-3 at Ue <= 440 V 1.3 Mcycles 12 A AC-3e at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 690 V 0.02 Mcycles 72 A AC-4 at Ue <= 440 V
Height	58 mm
Width	45 mm
Depth	57 mm
Net Weight	0.235 kg

### **Environment**

Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1
	UL 60947-5-1
	CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1
	GB/T 14048.4
Product Certifications	CB Scheme
	CCC
	UL
	CSA
	EAC
	CE
	UKCA
Ip Degree Of Protection	IP2X
Ambient Air Temperature For Operation	-2550 °C
Ambient Air Temperature For Storage	-5080 °C
Operating Altitude	2000 m without derating
Flame Retardance	V1 conforming to UL 94
	Requirement 2 conforming to NF F 16-101
	Requirement 2 conforming to NF F 16-102

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.900 cm
Package 1 Width	6.200 cm
Package 1 Length	6.900 cm
Package 1 Weight	242.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	40
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	11.104 kg

## **Contractual warranty**

Warranty 18 months

### Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

### Well-being performance

<b>⊘</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov