Product data sheet

Specifications

Discontinued

Motor Starter Kit, TeSys, LC1D09G7 contactor, GV2P14 motor starter protector, 120VAC 50/60Hz coil, 6A to 10A trip

GV2P14KD09G7

Discontinued on: Sep 15, 2023

End-of-service on: Dec 31, 2024

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range	TeSys
Product or Component Type	Motor starter
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4 AC-3e
Poles description	3P
power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
Motor power kW	2.2 kW at 220...230 V AC 50/60 Hz (AC-3) 4 kW at 380...400 V AC 50/60 Hz (AC-3) 4 kW at 415...440 V AC 50/60 Hz (AC-3) 5.5 kW at 500 V AC 50/60 Hz (AC-3) 5.5 kW at 660...690 V AC 50/60 Hz (AC-3) 2.2 kW at 400 V AC 50/60 Hz (AC-4) 2.2 kW at 220...230 V AC 50/60 Hz (AC-3e) 4 kW at 380...400 V AC 50/60 Hz (AC-3e) 4 kW at 415...440 V AC 50/60 Hz (AC-3e) 5.5 kW at 500 V AC 50/60 Hz (AC-3e) 5.5 kW at 660...690 V AC 50/60 Hz (AC-3e)
motor power HP (UL / CSA)	1 hp at 230/240 V AC 50/60 Hz for 1 phase motors 2 hp at 200/208 V AC 50/60 Hz for 3 phase motors 2 hp at 230/240 V AC 50/60 Hz for 3 phase motors 5 hp at 460/480 V AC 50/60 Hz for 3 phase motors 7.5 hp at 575/600 V AC 50/60 Hz for 3 phase motors 0.33 hp at 115 V AC 50/60 Hz for 1 phase motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	120 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[Ith] conventional free air thermal current	25 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling circuit
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	105 A 104 °F (40 °C) - 10 s for power circuit 210 A 104 °F (40 °C) - 1 s for power circuit 30 A 104 °F (40 °C) - 10 min for power circuit 61 A 104 °F (40 °C) - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Electrical durability	0.6 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V
Power dissipation per pole	1.56 W AC-1 0.2 W AC-3 0.2 W AC-3e
safety cover	With
Mounting Support	Rail Plate
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product Certifications	RINA DNV GOST LROS (Lloyds register of shipping) UL GL BV CCC CSA

Connections - terminals	Power circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible without cable end Power circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)flexible without cable end Power circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible with cable end Power circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Power circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)solid without cable end Power circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)solid without cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)solid without cable end Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)solid without cable end
Tightening torque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2
Operating time	12...22 ms closing 4...19 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	15 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Trip unit rating	6…10 A
Trip unit technology	Thermal-magnetic
Phase failure sensitivity	Yes IEC 60947-4-1
Suitability for isolation	Yes IEC 60947-1

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	Drop-out 0.3...0.6 Uc AC 50/60 Hz 140 °F (60 °C)) Operational 0.8...1.1 Uc AC 50 Hz 140 °F (60 °C)) Operational 0.85...1.1 Uc AC 60 Hz 140 °F (60 °C))
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	2…3 W 50/60 Hz
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non-overlap time	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Insulation resistance	> 10 MOhm for signalling circuit
Contact compatibility	M2

motor power range	0…0.5 kW 100…120 V 3 phase 0.55…1 kW 100…120 V 3 phase 0…0.5 kW 200…240 V 3 phase 0.55…1 kW 200…240 V 3 phase 1.1…2 kW 200…240 V 3 phase 0…0.5 kW 380…440 V 3 phase 0.55…1 kW 380…440 V 3 phase 1.1…2 kW 380…440 V 3 phase 2.2…3 kW 380…440 V 3 phase 4…6 kW 380…440 V 3 phase 0…0.5 kW 480…500 V 3 phase 0.55…1 kW 480…500 V 3 phase 1.1…2 kW 480…500 V 3 phase 2.2…3 kW 480…500 V 3 phase 4…6 kW 480…500 V 3 phase 0…0.5 kW 525…690 V 3 phase 0.55…1 kW 525…690 V 3 phase 1.1…2 kW 525…690 V 3 phase 2.2…3 kW 525…690 V 3 phase 4…6 kW 525…690 V 3 phase
Motor starter type	Direct on-line contactor
Utilisation category	AC-3 IEC 60947-4-1 Category A IEC 60947-2 AC-3e IEC 60947-4-1
Network frequency	50/60 Hz IEC 60947-4-1
Fixing mode	35 mm symmetrical DIN rail clipped auto-sensing) Panel screwed with 2 x M4 screws)
Operating position	Any position
Motor power kW	3 kW 400/415 V AC 50/60 Hz 5.5 kW 690 V AC 50/60 Hz 5 kW 500 V AC 50/60 Hz
Breaking capacity	100 kA Icu 230/240 V AC 50/60 Hz IEC 60947-2 100 kA Icu 400/415 V AC 50/60 Hz IEC 60947-2 100 kA Icu 440 V AC 50/60 Hz IEC 60947-2 50 kA Icu 500 V AC 50/60 Hz IEC 60947-2 6 kA Icu 690 V AC 50/60 Hz IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % 690 V AC 50/60 Hz IEC 60947-2 100 % 500 V AC 50/60 Hz IEC 60947-2 100 % 230/240 V AC 50/60 Hz IEC 60947-2 100 % 440 V AC 50/60 Hz IEC 60947-2 100 % 400/415 V AC 50/60 Hz IEC 60947-2
Control Type	Rotary knob
Line Rated Current	10 A
Magnetic tripping current	138 A
[Ue] rated operational voltage	690 V AC 50/60 Hz IEC 60947-2
[Ui] rated insulation voltage	690 V AC 50/60 Hz IEC 60947-2
[Ith] conventional free air thermal current	10 A IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-2
Power dissipation per pole	2.5 W
Mechanical durability	100000 cycles
Electrical durability	100000 cycles AC-3 440 V 100000 cycles AC-3e 440 V
maximum operating rate	25 cyc/h
Rated duty	Continuous IEC 60947-4-1
Direct connector	Without

Connections - terminals	screw clamp terminals 2 0.002…0.009 in² (1…6 mm²) solid screw clamp terminals 2 0.002…0.009 in² (1.5…6 mm²) flexible without cable end screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) flexible with cable end
Tightening torque	15.05 lbf.in (1.7 N.m) screw clamp terminals

Environment

IP degree of protection	IP20 front face IEC 60529
Pollution degree	3
Ambient air temperature for operation	23…140 °F (-5…60 °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) at Uc
Operating altitude	9842.52 ft (3000 m) without derating
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
Height	3.03 in (77 mm)
Width	1.8 in (45 mm)
Depth	3.4 in (86 mm)
Product Weight	0.71 lb(US) (0.32 kg)
Standards	IEC 60947-2 UL 508 VDE 0113 NF C 79-130 NF C 63-650 IEC 60947-1 CSA C22.2 NF C 63-120 IEC 60947-4-1 VDE 0660 EN 60204
Product certifications	UL CSA BV DNV ATEX EAC LROS (Lloyds register of shipping) UL 508 type E CCC GL RINA TSE EZU
Protective treatment	TH
Climatic withstand	IACS E10
IK degree of protection	IK04
IP degree of protection	IP20 IEC 60529
Ambient air temperature for operation	-4…140 °F (-20…60 °C)
Operating altitude	6561.68 ft (2000 m)
Ambient air temperature for storage	-40…176 °F (-40…80 °C)

Height	3.5 in (89 mm)
Width	1.8 in (45 mm)
Depth	3.8 in (97 mm)

Ordering and shipping details

Category	US10I1122368
Discount Schedule	0I11
GTIN	3606486287927
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.03 in (7.7 cm)
Package 1 Width	1.8 in (4.5 cm)
Package 1 Length	3.4 in (8.6 cm)
Package weight(Lbs)	25.92 oz (734.82 g)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	C4def605-9cda-4bdf-968e-80f8fb87f293
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
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

Use Longer

Lifetime extension

Repair	No

Use Again

Repack and remanufacture

Take-back	No