

# Product data sheet

Specifications



## IEC contactor, Easy TeSys DPE, nonreversing, 50A, 3P, 30HP at 480V AC, 120V AC 60Hz coil

DPE50G7

### Main

Range	Easy TeSys
Product name	Easy TeSys DPE
Product or component type	Contactors
Device short name	DPE
Contactors application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Poles description	3P
Pole contact composition	3 NO
Continuous current (Conforming to UL,CSA)	70 A
[Ue] rated operational voltage (Conforming to UL,CSA)	115 V single phase 230...240 V single phase 200...208 V 3-phase 230...240 V 3-phase 460...480 V 3-phase 575...600 V 3-phase
Motor power HP (Conforming to UL,CSA)	3 hp at 115 V AC 50/60 Hz for 1 phase motors 5 hp at 230...240 V AC 50/60 Hz for 1 phase motors 10 hp at 200...208 V AC 50/60 Hz for 3 phases motors 10 hp at 230...240 V AC 50/60 Hz for 3 phases motors 30 hp at 460...480 V AC 50/60 Hz for 3 phases motors 30 hp at 575...600 V AC 50/60 Hz for 3 phases motors
[Ie] rated operational current (conforming to IEC,GB/T)	50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
[Ith] conventional free air thermal current (Conforming to IEC,GB/T)	80 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling circuit
Motor power kW (conforming to IEC,GB/T)	15 kW 220...230 V AC 50/60 Hz 22 kW 380...400 V AC 50/60 Hz 25 kW 415 V AC 50/60 Hz 30 kW 440 V AC 50/60 Hz 30 kW 500 V AC 50/60 Hz 33 kW 660...690 V AC 50/60 Hz
Incorporated auxiliary contact	1 NO
[Uc] control circuit voltage	120 V AC 60 Hz

### Complementary

Associated fuse or circuit breaker (conforming to UL,CSA)	Associated fuse, J fuse, 110 A at 600 V with 100 kA breaking capacity Associated circuit breaker, 110 A at 480 V with 35 kA breaking capacity Associated circuit breaker, 110 A at 600 V with 18 kA breaking capacity
Associated fuse rating (Conforming to IEC,GB/T)	100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit

<b>Rated making capacity (Conforming to IEC,GB/T)</b>	140 A AC for signalling circuit 250 A DC for signalling circuit 800 A at 440 V for power circuit
<b>Rated breaking capacity (Conforming to IEC,GB/T)</b>	800 A at 440 V for power circuit
<b>Average impedance per pole (At 1th and 50 Hz, conforming to IEC,GB/T)</b>	1.5 mOhm
<b>Power dissipation per pole (at operational currents, conforming to IEC,GB/T)</b>	3.7 W AC-3 9.6 W AC-1
<b>Electrical durability (Conforming to IEC,GB/T)</b>	1 Mcycles 40 A AC-3 <= 440 V 0.6 Mcycles 60 A AC-1 <= 440 V
<b>Safety reliability level (Conforming to IEC,GB/T)</b>	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Coil technology</b>	Without built-in suppressor module
<b>Control circuit voltage limits</b>	Operational: 0.85...1.1 Uc at 60 Hz (at <140 °F (60 °C)) Operational: 1...1.1 Uc at 60 Hz (at <158 °F (70 °C)) Drop-out: 0.3...0.6 Uc at 60 Hz (at <158 °F (70 °C))
<b>Inrush power in VA</b>	140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
<b>Heat dissipation</b>	4...5 W 60 Hz
<b>Operating time</b>	4...19 ms opening 12...26 ms closing
<b>Mechanical durability</b>	5 Mcycles
<b>Maximum operating rate</b>	3600 cyc/h 140 °F (60 °C)
<b>Minimum switching current</b>	5 mA for signalling circuit
<b>Minimum switching voltage</b>	17 V for signalling circuit
<b>Insulation resistance</b>	> 10 MOhm for signalling circuit
<b>Signalling circuit frequency</b>	25...400 Hz
<b>Connections - terminals</b>	Power circuit: screw connection 1 0.004...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Power circuit: screw connection 2 0.004...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Power circuit: screw connection 1 0.004...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Power circuit: screw connection 2 0.004...0.02 in <sup>2</sup> (2.5...10 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Power circuit: screw connection 1 0.004...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> ) - cable stiffness: solid without cable end Power circuit: screw connection 2 0.004...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> ) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid without cable end
<b>Tightening torque</b>	Power circuit 62.0 lbf.in (7 N.m) screw connectors 0.02...0.04 in <sup>2</sup> (16...25 mm <sup>2</sup> ) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) screw connectors 0.004...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> ) hexagonal 0.2 in (4 mm) Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv 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

Mounting support	Rail Plate
Height	4.8 in (122 mm)
Width	2.2 in (55 mm)
Depth	4.8 in (122 mm)

## Environment

Standards	UL 60947-1 UL 60947-4-1 CSA C22.2 No 60947-1 CSA C22.2 No 60947-4-1 EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1
Product certifications	cULus CB Scheme CE
[Ui] rated insulation voltage (Conforming to UL,CSA)	600 V
Flame resistance (Conforming to UL,CSA)	V1 UL 94
[Ui] rated insulation voltage (Conforming to IEC,GB/T)	690 V
Overvoltage category (Conforming to IEC,GB/T)	III
Pollution degree (Conforming to IEC,GB/T)	3
[Uimp] rated impulse withstand voltage (Conforming to IEC,GB/T)	6 kV
IP degree of protection (Conforming to IEC,GB/T)	IP20 front face
Protective treatment (Conforming to IEC,GB/T)	TH
Climatic withstand	IACS E10 IEC 60947-1 Annex Q category D
Flame resistance (Conforming to IEC,GB/T)	1562 °F (850 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Ambient air temperature for operation	-40...140 °F (-40...60 °C)
Operating altitude	0...2000 m
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.4 in (11.3 cm)
Package 1 Width	2.05 in (5.2 cm)
Package 1 Length	3.6 in (9.2 cm)
Package 1 Weight	33.2 oz (940 g)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	5.9 in (15 cm)

<b>Package 2 Width</b>	11.8 in (30 cm)
<b>Package 2 Length</b>	15.7 in (40 cm)
<b>Package 2 Weight</b>	21.8 lb(US) (9.9 kg)
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	160
<b>Package 3 Height</b>	41.3 in (105 cm)
<b>Package 3 Width</b>	23.6 in (60 cm)
<b>Package 3 Length</b>	31.5 in (80 cm)
<b>Package 3 Weight</b>	369.3 lb(US) (167.5 kg)

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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 >](#)



### Environmental footprint

Total lifecycle Carbon footprint	81 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	13 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	61 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	4 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	3d0a4f45-d28c-4c3d-bee1-c14ec8c34bee

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	62
Circularity Profile	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins