

# Product data sheet

Specifications



## IEC contactor, Easy TeSys DPE, nonreversing, 50A, 3P, 30HP at 480V AC, 24V AC 50/60Hz coil

DPE50B7

**Product availability: Stock - Normally stocked in distribution facility**

## 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-1 AC-3
Poles description	3P
Pole contact composition	3 NO
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 phase motors 10 hp at 230/240 V AC 50/60 Hz for 3 phase motors 30 hp at 460/480 V AC 50/60 Hz for 3 phase motors 30 hp at 575/600 V AC 50/60 Hz for 3 phase motors
[Ie] rated operational current (conforming to IEC, GB/T)	80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
[Ith] conventional free air thermal current (Conforming to IEC, GB/T)	10 A (at 140 °F (60 °C)) for signalling circuit 60 A (at 140 °F (60 °C)) for power 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	24 V AC 50/60 Hz

## Complementary

Associated fuse rating (Conforming to IEC, GB/T)	10 A gG for signalling circuit conforming to IEC 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit
Rated making capacity (Conforming to IEC, GB/T)	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity (Conforming to IEC, GB/T)	800 A at 440 V for power circuit conforming to IEC 60947
Average impedance per pole (At Ith and 50 Hz, conforming to IEC, GB/T)	1.5 mOhm - Ith 80 A 50 Hz for power circuit
Power dissipation per pole (at operational currents, conforming to IEC, GB/T)	3.7 W AC-3 9.6 W AC-1

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

<b>Electrical durability (Conforming to IEC,GB/T)</b>	0.6 Mcycles 60 A AC-1 <= 440 V 1 Mcycles 40 A AC-3 <= 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>	Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <158 °F (70 °C)) Operational: 0.8...1.1 Uc at 50 Hz (at <140 °F (60 °C)) Operational: 0.85...1.1 Uc at 60 Hz (at <140 °F (60 °C)) Operational: 1...1.1 Uc at 50/60 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 50/60 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
<b>Mounting Support</b>	Rail Plate
<b>Height</b>	4.8 in (122 mm)
<b>Width</b>	2.2 in (55 mm)
<b>Depth</b>	4.8 in (122 mm)

## Environment

<b>Standards</b>	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-4-1
<b>Product Certifications</b>	cULus
<b>[UI] rated insulation voltage (Conforming to UL,CSA)</b>	Power circuit 690 V IEC 60947-4-1
<b>Flame resistance (Conforming to UL,CSA)</b>	V1 conforming to UL 94
<b>Overvoltage category (Conforming to IEC,GB/T)</b>	III
<b>Pollution degree (Conforming to IEC,GB/T)</b>	3
<b>[Uimp] rated impulse withstand voltage (Conforming to IEC,GB/T)</b>	6 kV IEC 60947
<b>IP degree of protection (Conforming to IEC,GB/T)</b>	IP20 front face IEC 60529
<b>Protective treatment (Conforming to IEC,GB/T)</b>	TH IEC 60068-2-30
<b>Climatic withstand</b>	IACS E10 IEC 60947-1 Annex Q category D
<b>Flame resistance (Conforming to IEC,GB/T)</b>	1562 °F (850 °C) IEC 60695-2-1
<b>Ambient Air Temperature for Storage</b>	-76...176 °F (-60...80 °C)
<b>Ambient Air Temperature for Operation</b>	-40...140 °F (-40...60 °C)
<b>Operating altitude</b>	0...6561.68 ft (0...2000 m)
<b>Mechanical robustness</b>	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)

## Ordering and shipping details

<b>Category</b>	US10I1222329
<b>Discount Schedule</b>	0112
<b>GTIN</b>	3606482465312
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	4.4 in (11.3 cm)
<b>Package 1 Width</b>	2.05 in (5.2 cm)
<b>Package 1 Length</b>	3.6 in (9.2 cm)
<b>Package weight(Lbs)</b>	33.2 oz (940 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	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.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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.

### Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Compliant
SCIP Number	3d0a4f45-d28c-4c3d-bee1-c14ec8c34bee
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	<b>WARNING:</b> 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

### Use Longer



### Lifetime extension

Repair	No
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### Use Again



### Repack and remanufacture

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.