

Product data sheet

Specifications



IEC contactor, Easy TeSys DPE, nonreversing, 50A, 3P, 30HP at 480V AC, 24VDC coil

DPE50BD

Product availability: Stock - Normally stocked in distribution facility

Main

Range	Easy TeSys
Product name	Easy TeSys DPE
Product or Component Type	Contacteur
Device short name	DPE
Contacteur 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 DC

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.

Electrical durability (Conforming to IEC,GB/T)	0.6 Mcycles 60 A AC-1 <= 440 V 1 Mcycles 40 A AC-3 <= 440 V
Safety reliability level (Conforming to IEC,GB/T)	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Coil technology	Without built-in suppressor module
Control circuit voltage limits	Drop-out: 0.1...0.3 Uc (at <140 °F (60 °C)) Operational: 0.75...1.25 Uc (at <140 °F (60 °C))
Inrush power in W	19 W 68 °F (20 °C))
Hold-in power consumption in W	7.4 W 68 °F (20 °C)
Heat dissipation	4...5 W 50/60 Hz
Operating time	4...19 ms opening 12...26 ms closing
Mechanical durability	5 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Insulation resistance	> 10 MOhm for signalling circuit
Signalling circuit frequency	25...400 Hz
Connections - terminals	Power circuit: screw connection 1 0.004...0.04 in ² (2.5...25 mm ²) - cable stiffness: flexible without cable end Power circuit: screw connection 2 0.004...0.02 in ² (2.5...16 mm ²) - cable stiffness: flexible without cable end Power circuit: screw connection 1 0.004...0.04 in ² (2.5...25 mm ²) - cable stiffness: flexible with cable end Power circuit: screw connection 2 0.004...0.02 in ² (2.5...10 mm ²) - cable stiffness: flexible with cable end Power circuit: screw connection 1 0.004...0.04 in ² (2.5...25 mm ²) - cable stiffness: solid without cable end Power circuit: screw connection 2 0.004...0.02 in ² (2.5...16 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end
Tightening torque	Power circuit 62.0 lbf.in (7 N.m) screw connectors 0.02...0.04 in ² (16...25 mm ²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) screw connectors 0.004...0.02 in ² (2.5...16 mm ²) 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	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
Product Certifications	cULus
[UI] rated insulation voltage (Conforming to UL,CSA)	Power circuit 690 V IEC 60947-4-1
Flame resistance (Conforming to UL,CSA)	V1 conforming to UL 94
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 IEC 60947
IP degree of protection (Conforming to IEC,GB/T)	IP20 front face IEC 60529
Protective treatment (Conforming to IEC,GB/T)	TH IEC 60068-2-30
Climatic withstand	IACS E10 IEC 60947-1 Annex Q category D
Flame resistance (Conforming to IEC,GB/T)	1562 °F (850 °C) IEC 60695-2-1
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...6561.68 ft (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)

Ordering and shipping details

Category	US10I1222329
Discount Schedule	0112
GTIN	3606482465350
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.4 in (6.2 cm)
Package 1 Width	5.0 in (12.7 cm)
Package 1 Length	6.0 in (15.2 cm)
Package weight(Lbs)	33.9 oz (960 g)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)

Package 2 Weight 21.859 lb(US) (9.915 kg)

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 >](#)



Environmental footprint

Total lifecycle Carbon footprint	99 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
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]	80 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
EU RoHS Directive	Compliant
SCIP Number	3d0a4f45-d28c-4c3d-bee1-c14ec8c34bee
REACH Regulation	REACH Declaration
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
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Use Again



Repack and remanufacture

Circularity Profile	End of Life Information
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.