# Product data sheet

Specifications





## IEC contactor,Easy TeSys DPE,nonreversing,18A,3P,7.5HP at 480V AC,24V DC coil

DPE18BL

#### Main

Range	Easy TeSys
Product name	Easy TeSys DPE
product or component type	Contactor
Device short name	DPE
contactor application	Resistive load Motor control
Utilisation category	AC-4 AC-1 AC-3
poles description	3P
Pole contact composition	3 NO
Auxiliary contact composition	1 NO
[le] rated operational current	18 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
[Uc] control circuit voltage	24 V DC
Motor power kW	4 kW 220230 V AC 50/60 Hz 7.5 kW 380400 V AC 50/60 Hz 9 kW 415 V AC 50/60 Hz 9 kW 440 V AC 50/60 Hz 10 kW 500 V AC 50/60 Hz 10 kW 660690 V AC 50/60 Hz
Motor power hp	0.5 hp at 115 V AC 50/60 Hz for 1 phase motors 2 hp at 230/240 V AC 50/60 Hz for 1 phase motors 3 hp at 200/208 V AC 50/60 Hz for 3 phases motors 3 hp at 230/240 V AC 50/60 Hz for 3 phases motors 7.5 hp at 460/480 V AC 50/60 Hz for 3 phases motors 10 hp at 575/600 V AC 50/60 Hz for 3 phases motors

## Complementary

Maximum Operational Voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC	
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 25 A (at 140 °F (60 °C)) for power 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	
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit	

Tightening torque mounting support Height	Control circuit: screw clamp terminals 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid without cable end 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 Rail Plate 3.03 in (77 mm)
	Control circuit: screw clamp terminals 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid without cable end 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 Rail
Tightening torque	Control circuit: screw clamp terminals 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid without cable end 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: screw clamp terminals 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable
	Control circuit: screw clamp terminals 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.0020.004 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid without cable end
	Control circuit: screw clamp terminals 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: flexible without cable end
	Power circuit: screw clamp terminals 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid without cable end
	flexible with cable end Power circuit: screw clamp terminals 2 0.0020.004 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end
Connections - terminals	Power circuit: screw clamp terminals 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:
Signalling circuit frequency	25400 Hz
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
Minimum switching voltage	17 V for signalling circuit
Minimum switching current	5 mA for signalling circuit
Auxiliary contacts type	Mechanically linked 1 NO IEC 60947-5-1
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Mechanical durability	10 Mcycles
Operating time	65.4588.55 ms closing 2030 ms opening
Heat dissipation	23 W 50/60 Hz
Hold-in power consumption in W	2.4 W 68 °F (20 °C)
Inrush power in W	Operational: 11.25 Uc (at <158 °F (70 °C)) 2.4 W 68 °F (20 °C))
Control circuit voltage limits	Drop-out: 0.10.3 Uc (at <158 °F (70 °C)) Operational: 0.81.25 Uc (at <140 °F (60 °C))
Coil technology	Without built-in suppressor module
Control circuit type	DC
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
Electrical durability	1 Mcycles 18 A AC-3 <= 440 V 0.6 Mcycles 25 A AC-1 <= 440 V
Power dissipation per pole	0.36 W AC-3 1.56 W AC-1

3.4 in (86 mm)

net weight

0.717 lb(US) (0.325 kg)

#### Environment

[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
Overvoltage category	Ш
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
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	UL CSA
IP degree of protection	IP20 front face IEC 60529
Ambient air temperature for storage	-76176 °F (-6080 °C)
Ambient air temperature for operation	-40140 °F (-4060 °C)
Operating altitude	02000 m
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Mechanical robustness	Vibrations contactor open 2 Gn, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz) Shocks contactor open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)

# **Packing Units**

<b>v</b>	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.7 in (9.5 cm)
Package 1 Width	1.8 in (4.5 cm)
Package 1 Length	3.03 in (7.7 cm)
Package 1 Weight	12.3 oz (350.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	16
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	13.040 lb(US) (5.915 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	256
Package 3 Height	303.15 in (770.0 cm)
Package 3 Width	23.6 in (60.0 cm)
Package 3 Length	31.5 in (80.0 cm)

Package 3 Weight

227.38 lb(US) (103.14 kg)

## Sustainability Screen Premium

**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

Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile