Product data sheet

Specification





IEC contactor, Easy TeSys DPE, nonreversing, 12A, 3P, 5HP at 480V AC, 24V 50/60Hz coil

DPE12B7

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	12 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 AC 50/60 Hz
Motor Power Kw	3 kW 220230 V AC 50/60 Hz 5.5 kW 380400 V AC 50/60 Hz 5.5 kW 415 V AC 50/60 Hz 5.5 kW 440 V AC 50/60 Hz 7.5 kW 500 V AC 50/60 Hz 7.5 kW 660690 V AC 50/60 Hz
Motor Power Hp	0.33 hp at 115 V AC 50/60 Hz for 1 phase motors 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 phases motors 2 hp at 230/240 V AC 50/60 Hz for 3 phases motors 5 hp at 460/480 V AC 50/60 Hz for 3 phases motors 7.5 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	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	
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	

Power Dissipation Per Pole	1.56 W AC-1 0.2 W AC-3
Electrical Durability	0.6 Mcycles 25 A AC-1 <= 440 V 1 Mcycles 12 A AC-3 <= 440 V
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
Control Circuit Type	AC 50/60 Hz
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	Drop-out: 0.30.6 Uc at 50/60 Hz (at <158 °F (70 °C)) Operational: 0.81.1 Uc at 50 Hz (at <140 °F (60 °C)) Operational: 0.851.1 Uc at 60 Hz (at <140 °F (60 °C)) Operational: 11.1 Uc at 50/60 Hz (at <158 °F (70 °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	23 W 50/60 Hz
Operating Time	1222 ms closing 419 ms opening
Mechanical Durability	10 Mcycles
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)
Auxiliary Contacts Type	Mechanically linked 1 NO IEC 60947-5-1
Minimum Switching Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V for signalling circuit
Insulation Resistance	> 10 MOhm 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
Signalling Circuit Frequency	25400 Hz
Connections - Terminals Tightening Torque	Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.000.00 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end
rightening forque	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
Mounting Support	Rail Plate
	Tate .

Width	1.77 in (45 mm)
Depth	3.39 in (86 mm)
Net Weight	0.71 lb(US) (0.32 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 Signalling circuit 600 V CSA Signalling circuit 600 V UL
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

PCE
1
2.20 in (5.590 cm)
3.80 in (9.650 cm)
4.70 in (11.940 cm)
12.70 oz (360.000 g)
S02
30
5.91 in (15.000 cm)
11.81 in (30.000 cm)
15.75 in (40.000 cm)
24.38 lb(US) (11.060 kg)
P06
480
29.53 in (75.000 cm)

Package 3 Width	31.50 in (80.000 cm)
Package 3 Length	23.62 in (60.000 cm)
Package 3 Weight	407.77 lb(US) (184.960 kg)



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Transparency RoHS/REACh

Well-being performance

Ø	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
Ø	Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information