Product data sheet
Characteristics

DPE09P7
Tesys DPE non-reversing contactor 3P 440V 9A

Main

Range	TeSys
Product name	TeSys DPE
Product or component type	Contactor
Device short name	DPE
Device application	Control
Contactor application	Motor control Non-reversing
Quantity per set	Set of 1

Complementary

Utilisation category	AC-4 AC-3 AC-1
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	690 V AC 50/60 Hz at power circuit
[Ie] rated operational current	9 A AC supply utilisation category AC-1 for power circuit at 690 V 9 A AC supply utilisation category AC-3 for power circuit at 690 V 9 A AC supply utilisation category AC-4 for power circuit at 690 V
Motor power kW	2.2 kW 230 V AC at 50/60 Hz
Control circuit type	AC standard, frequency : 50/60 Hz
[Uc] control circuit voltage	230 V AC 50/60 Hz
Auxiliary contact composition	Without
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-4-1 6 kV conforming to EN 60947-1 6 kV conforming to IEC 60947-1
Overvoltage category	III
[Ith] conventional free air thermal current	25 Aambient air temperature 60 °C at power circuit
Irms rated making capacity	250 A 440 V AC at power circuit conforming to IEC 60947
Rated breaking capacity	250 kA 690 V at power circuit conforming to IEC 60947
Associated fuse rating	25 A curve gG at <= 690 V coordination type 1 conforming to IEC 60947 20 A curve gG at <= 690 V coordination type 2 conforming to IEC 60947
Average impedance	2.5 mOhm, frequency : 50 Hz at 25 A-power circuit

[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Electrical durability	800000 cycles
Power dissipation per pole	0.2 W utilisation category AC-3 1.56 W utilisation category AC-1
Mounting support	Plate DIN rail
Connections - terminals	Screw clamp terminals control circuit 2 1...2.5 mm² flexible with cable end Screw clamp terminals power circuit 1 1...4 mm² flexible with cable end Screw clamp terminals power circuit 2 1...2.5 mm² flexible with cable end Screw clamp terminals power circuit 1 1...4 mm² solid without cable end Screw clamp terminals power circuit 2 1...4 mm² solid without cable end Screw clamp terminals control circuit 1 1...4 mm² flexible without cable end Screw clamp terminals control circuit 2 1...4 mm² flexible without cable end Screw clamp terminals control circuit 1 1...4 mm² flexible with cable end Screw clamp terminals control circuit 1 1...4 mm² solid without cable end Screw clamp terminals control circuit 2 1...4 mm² solid without cable end
Tightening torque	1.7 N.m for screw terminals at power circuit 1.7 N.m for screw terminals at control circuit
Operating time	12...22 ms on closing 4...19 ms on opening
Mechanical durability	30000000 cycles
Control circuit voltage limits	0.85...1.1 Ucambient air temperature <= 60 °C at operational at 50/60 Hz 0.8...1.1 Ucambient air temperature <= 50 °C at operational at 50/60 Hz 0.3...0.6 Ucambient air temperature <= 60 °C at drop-out at 50/60 Hz
Inrush power in VA	70 VAambient air temperature 20 °C (cos phi = 0.75) at 50 Hz 70 VAambient air temperature 20 °C (cos phi = 0.75) at 60 Hz
Hold-in power consumption in VA	7 VAambient air temperature 20 °C (cos phi = 0.3 at 50 Hz 7.5 VAambient air temperature 20 °C (cos phi = 0.3 at 60 Hz
Mechanical robustness	Vibrations at contactor open for 2 Gn, 5...300 Hz Vibrations at contactor closed for 4 Gn, 5...300 Hz Shocks at 11 ms at contactor closed for 15 gn Shocks at 11 ms at contactor open for 10 Gn
Height	77 mm
Width	45 mm
Depth	84 mm
Product weight	0.32 kg

Environment

Standards	IEC 60947-1 EN 60947-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	CSA UL
Heat dissipation	2...3 W
IP degree of protection	IP2x IEC 60947
Pollution degree	3
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C at Uc
Operating altitude	3000 m-without derating
Fire resistance	960 °C conforming to IEC 60695-2-1