Product data sheet
Characteristics

DPE25B7
Easy Tesys DPE IEC contactor, 25 A,3 P, 10 HP at 480 VAC, nonreversing, 24 V 50/60 HZ coil

Main

Range	Easy TeSys
Product name	Easy TeSys DPE
Product or component type	Contactor
Device short name	DPE
Contactor application	Resistive load Motor control

Complementary

Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	25 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	4 KW at 220...230 V AC 50/60 Hz 7.5 KW at 380...400 V AC 50/60 Hz 9 KW at 415...440 V AC 50/60 Hz 10 KW at 500 V AC 50/60 Hz 10 KW at 660...690 V AC 50/60 Hz 4 kW 400 V AC 50/60 Hz
Maximum Horse Power Rating	1 Hp at 115 V AC 50/60 Hz for 1 phase motors 3 Hp 230/240 V AC 50/60 Hz 1 phase 5 Hp at 200/208 V AC 50/60 Hz for 3 phases motors 5 Hp at 230/240 V AC 50/60 Hz for 3 phases motors 10 Hp at 460/480 V AC 50/60 Hz for 3 phases motors 15 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	24 V AC 50/60 Hz
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
Irms rated making capacity	140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 300 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 50 A gG at <= 690 V coordination type 1 for power circuit 35 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit
[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

Electrical durability	1 Mcycles 25 A AC-3 <= 440 V 0.6 Mcycles 32 A AC-1 <= 440 V
Power dissipation per pole	2.5 W AC-1 0.8 W AC-3
Mounting support	Rail Plate
Connections - terminals	Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) flexible without cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) flexible with cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) solid without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) solid without cable end Power circuit screw clamp terminals 1 0.00…0.01 in² (1.5…6 mm²) flexible without cable end Power circuit screw clamp terminals 2 0.00…0.01 in² (1.5…6 mm²) flexible without cable end Power circuit: screw clamp terminals 1 1…6 mm² - cable stiffness: flexible with cable end Power circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) flexible with cable end Power circuit: screw clamp terminals 1 1.5…6 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.5…6 mm² - cable stiffness: solid without cable end
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver 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
Operating time	12...22 ms closing 4...19 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	10 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Coil technology	Without built-in suppressor module
Control circuit voltage limits	Drop-out 0.3...0.6 Uc 50/60 Hz 158 °F (70 °C)) Operational: 0.8...1.1 Uc at 50 Hz (at <60 °C) Operational: 0.85...1.1 Uc at 60 Hz (at <60 °C) Operational 1...1.1 Uc 50/60 Hz 158 °F (70 °C))
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)
Auxiliary contacts type	Mechanically linked 1 NO IEC 60947-5-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V 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
Insulation resistance	> 10 MOhm signalling circuit
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)
Height	3.03 in (77 mm)
Width	1.77 in (45 mm)
Depth	3.39 in (86 mm)
Net Weight	0.73 lb(US) (0.33 kg)

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	UL CSA
Heat dissipation	2…3 W at 50/60 Hz
IP degree of protection	IP20 front face IEC 60529
Pollution degree	3
Protective treatment	TH IEC 60068-2-30
Ambient air temperature for operation	-40…140 °F (-40…60 °C)
Ambient air temperature for storage	-76…176 °F (-60…80 °C)
Operating altitude	0...6561.68 ft (0...2000 m)
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 UL 94

Ordering and shipping details

GTIN	03606485332697
Package weight(Lbs)	0.75 lb(US) (0.338 kg)

Packing Units

Package 1 Height	0.500 dm
Package 1 width	0.900 dm
Package 1 Length	1.100 dm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes