

DPE38B7

IEC contactor, Easy TeSys
DPE, nonreversing, 38A, 3P, 20HP at 480V
AC, 24V 50/60Hz coil



Main

Range	Easy TeSys
Product name	Easy TeSys DPE
Product or Component Type	Contacteur
Device short name	DPE
Contacteur application	Resistive load Motor control
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
Auxiliary contact composition	Without
[Ie] rated operational current	38 A (at $\le 140\text{ }^\circ\text{F}$ (60 °C)) at $\le 440\text{ V AC}$ AC-3 for power circuit 52 A (at $\le 140\text{ }^\circ\text{F}$ (60 °C)) at $\le 440\text{ V AC}$ AC-1 for power circuit
[Uc] control circuit voltage	24 V AC 50/60 Hz
Motor power kW	9 kW 220...230 V AC 50/60 Hz 18.5 kW 380...400 V AC 50/60 Hz 18.5 kW 415 V AC 50/60 Hz 18.5 kW 440 V AC 50/60 Hz 18.5 kW 500 V AC 50/60 Hz 18.5 kW 660...690 V AC 50/60 Hz
Maximum Horse Power Rating	2 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 20 Hp at 460/480 V AC 50/60 Hz for 3 phase motors 25 hp at 575/600 V AC 50/60 Hz for 3 phase motors

Complementary

Maximum Operational Voltage	Power circuit $\le 690\text{ V AC}$ 25...400 Hz Power circuit $\le 300\text{ V DC}$
[Ith] conventional free air thermal current	10 A (at $140\text{ }^\circ\text{F}$ (60 °C)) for signalling circuit 50 A (at $140\text{ }^\circ\text{F}$ (60 °C)) for power circuit
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	550 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 63 A gG at $\le 690\text{ V}$ coordination type 1 for power circuit 63 A gG at $\le 690\text{ V}$ coordination type 2 for power circuit
Average impedance	2 mOhm - Ith 50 A 50 Hz for power circuit
Power dissipation per pole	2 W AC-3 5 W AC-1
Electrical durability	1 Mcycles 38 A AC-3 $\le 440\text{ V}$ 0.6 Mcycles 52 A AC-1 $\le 440\text{ V}$
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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Control circuit type	AC 50/60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <158 °F (70 °C)) Operational: 0.8...1.1 Uc at 50 Hz (at <140 °F (60 °C)) Operational: 0.85...1.1 Uc at 60 Hz (at <140 °F (60 °C)) Operational: 1...1.1 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	2...3 W 50/60 Hz
Operating time	12...22 ms closing 4...19 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	25...400 Hz
Connections - terminals	Power circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without 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 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: 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	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 Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals Philips No 2
Mounting Support	Rail Plate
Height	3.3 in (85 mm)
Width	1.8 in (45 mm)
Depth	3.6 in (92 mm)
Net Weight	0.827 lb(US) (0.375 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	III
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[RETURN]CSA
IP degree of protection	IP20 front face IEC 60529
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)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
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	US10I1322362
Discount Schedule	0I13
GTIN	3606485332635
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.20 in (5.59 cm)
Package 1 Width	3.80 in (9.65 cm)
Package 1 Length	4.70 in (11.94 cm)
Package 1 Weight	0.93 lb(US) (0.42 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	16
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	15.591 lb(US) (7.072 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
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
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes

China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
