

Product data sheet

Specifications



IEC contactor, Easy TeSys DPE, nonreversing, 40A, 3P, 25HP at 480V AC, 240V AC 50/60Hz coil

DPE40U7

Product availability : Stock - Normally stocked in distribution facility

Main

Range	Easy TeSys
Product name	Easy TeSys DPE
Product or Component Type	Contactor
Device short name	DPE
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
Auxiliary contact composition	1 NO
[Ie] rated operational current	60 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit 40 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit
[Uc] control circuit voltage	240 V AC 50/60 Hz
Motor power kW	11 kW 220...230 V AC 50/60 Hz 18.5 kW 380...400 V AC 50/60 Hz 22 kW 415...440 V AC 50/60 Hz 22 kW 500 V AC 50/60 Hz 30 kW 660...690 V AC 50/60 Hz
Maximum Horse Power Rating	3 hp 115 V at AC 50/60 Hz for 1 phase 5 hp 230/240 V at AC 50/60 Hz for 1 phase 7.5 hp 200/208 V at AC 50/60 Hz for 3 phase 7.5 hp 230/240 V at AC 50/60 Hz for 3 phase 30 hp 460/480 V at AC 50/60 Hz for 3 phase 25 hp 575/600 V at AC 50/60 Hz for 3 phase

Complementary

Maximum Operational Voltage	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) signalling circuit 60 A 140 °F (60 °C) power circuit
Irms rated making capacity	140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 800 A 440 V power circuit IEC 60947
Rated breaking capacity	800 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	320 A 104 °F (40 °C) - 10 s power circuit 720 A 104 °F (40 °C) - 1 s power circuit 72 A 104 °F (40 °C) - 10 min power circuit 165 A 104 °F (40 °C) - 1 min power circuit

	100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit
Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 80 A gG <= 690 V type 1 power circuit 80 A gG <= 690 V type 2 power circuit
Average impedance	1.5 mOhm - lth 60 A 50 Hz power circuit
Power dissipation per pole	2.4 W AC-3 5.4 W AC-1
Electrical durability	0.6 Mcycles 60 A AC-1 <= 440 V 1 Mcycles 40 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 0.3...0.6 Uc 50/60 Hz 158 °F (70 °C)) Operational 0.8...1.1 Uc 50 Hz 140 °F (60 °C)) Operational 0.85...1.1 Uc 60 Hz 140 °F (60 °C)) Operational 1...1.1 Uc 50/60 Hz 158 °F (70 °C))
Inrush power in VA	140 VA 60 Hz 0.75 68 °F (20 °C))
Hold-in power consumption in VA	13 VA 60 Hz 0.3 68 °F (20 °C))
Heat dissipation	4...5 W 50/60 Hz
Operating time	4...19 ms opening 12...26 ms closing
Mechanical durability	5 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 signalling circuit
Minimum switching voltage	17 V signalling circuit
Insulation resistance	> 10 MOhm signalling circuit
Signalling circuit frequency	25...400 Hz
Connections - terminals	Power circuit screw connection 1 0.00...0.04 in² (2.5...25 mm²) flexible without cable end Power circuit screw connection 2 0.00...0.02 in² (2.5...16 mm²) flexible without cable end Power circuit screw connection 1 0.00...0.04 in² (2.5...25 mm²) flexible with cable end Power circuit screw connection 2 0.00...0.02 in² (2.5...10 mm²) flexible with cable end Power circuit screw connection 1 0.00...0.04 in² (2.5...25 mm²) solid without cable end Power circuit screw connection 2 0.00...0.02 in² (2.5...16 mm²) solid without 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) 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 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
Tightening torque	Power circuit 61.96 lbf.in (7 N.m) screw connectors 0.02...0.04 in² (16...25 mm²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) screw connectors 0.00...0.02 in² (2.5...16 mm²) hexagonal 0.16 in (4 mm) Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv 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
Height	4.80 in (122 mm)
Width	2.17 in (55 mm)
Depth	4.80 in (122 mm)
Net Weight	1.96 lb(US) (0.89 kg)

Environment

[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Power circuit 600 V cUL
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	Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V cUL
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	cULus
IP degree of protection	IP20 front face IEC 60529
Climatic withstand	IACS E10 IEC 60947-1 Annex Q category D
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	22329-TESYS GIGA CONTACTORS
Discount Schedule	I12
GTIN	3606482465282
Returnability	Yes

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.45 in (11.3 cm)
Package 1 Width	2.05 in (5.2 cm)
Package 1 Length	3.62 in (9.2 cm)
Package 1 Weight	33.16 oz (940 g)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	21.83 lb(US) (9.9 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Height	41.34 in (105 cm)
Package 3 Width	23.62 in (60 cm)

Package 3 Length	31.50 in (80 cm)
Package 3 Weight	369.27 lb(US) (167.5 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
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Recommended replacement(s)