

Product data sheet

Specifications



Power relay, SE Relays, SPST-DM, 40A, 48 VDC, magnetic blowout

199DBX-16

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Product Type	Power relay
Switch Function	SPST-NO-DM
Contact Composition	1 NO
Contact Blow-out Type	Magnetic
Cover Type	Open cover

Complementary

Input Current	40 A
Short Circuit Current	3 kA
Associated Fuse Rating	50 A gG at 690 V coordination type 2 for power circuit
Average Pole Impedance	4 mOhm
Contacts Material	Silver alloy contacts
Contact Operation	Double action
Wire Strip Length	0.3 in (8 mm)
Rated Operational Voltage	6...600 V AC 50-60 Hz 6...250 V DC
Minimum Switching Current	1000 mA 5 V AC/DC
Coil Resistance	1200 Ohm
Input voltage	48 V DC
Drop-out Voltage Threshold	>= 0.1 Uc AC/DC
Rated Operational Current	40 A at 300 V AC (on resistive load) conforming to UL 40 A at 28 V DC (on resistive load) conforming to UL 20 A at 110 V DC (on resistive load) conforming to UL 8 A at 220 V DC (on resistive load) conforming to UL 4 A at 325 V DC (on resistive load) conforming to UL 2 A at 500 V DC (on resistive load) conforming to UL
Power consumption in W	4 W DC
Power consumption in VA	10 VA AC
Voltage Range	0.85...1.1 Un AC/DC
Maximum Switching Voltage	600 V DC
Motor Power HP	2 hp 120...600 V AC 50/60 Hz
Connections Terminals	screw terminal - 1 x 0.009 in² (6 mm²)
Terminal Tightening Torque	10.6...15.05 lbf.in (1.2...1.7 N.m)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

Environment

Ambient Air Temperature for Operation	-67...131 °F (-55...55 °C)
Ambient Air Temperature for Storage	-67...212 °F (-55...100 °C)
Product Certifications	UL Listed CSA CE
Electrical Durability	100000 cycles resistive DC load
Dielectric Strength	2200 V AC between coil and contact 2200 V AC between poles 1500 V AC between open contacts

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3606481105080
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.50 in (6.36 cm)
Package 1 Width	1.98 in (5.03 cm)
Package 1 Length	2.56 in (6.5 cm)
Package 1 Weight	11.005 oz (312 g)

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Environmental Disclosure	Product Environmental Profile

Use Better

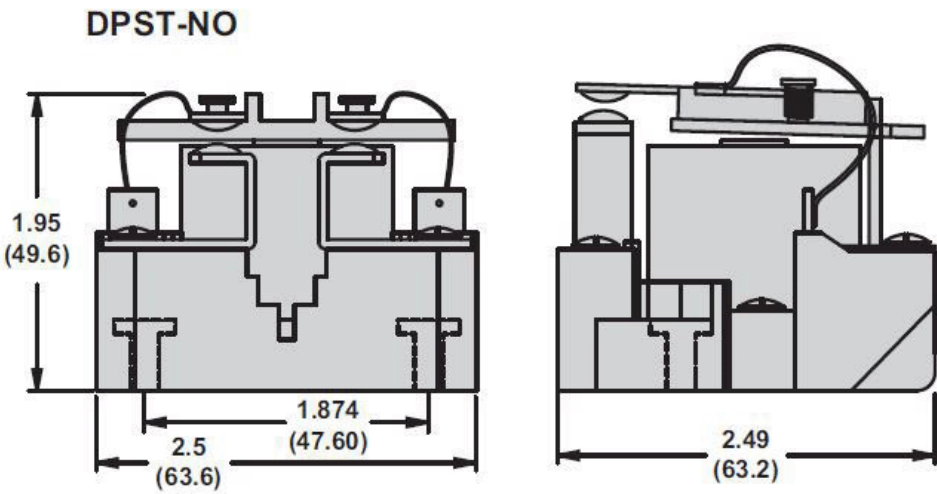
Materials and Substances	
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Again

Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Approximate Dimensions



Connections and Schema

Connections and Wiring Diagrams

