LR3D365

TeSys Deca thermal overload relays - 48...65 A - class 10A





Main

Range TeSys TeSys Deca Product name TeSys LRD TeSys Deca Product or Component Type Non differential thermal overload relay Type Device short name LR3D Relay application Motor protection Product Compatibility LC1D50A LC1D65A Network type DC AC Thermal overload class Class 10A IEC 60947-4-1 Thermal protection adjustment range [Ui] rated insulation voltage Power circuit 600 V CSA Power circuit 600 V UL Power circuit 690 V IEC 60947-4-1		
TeSys Deca Product or Component Type Device short name LR3D Relay application Product Compatibility LC1D50A LC1D65A Network type DC AC Thermal overload class Class 10A IEC 60947-4-1 Thermal protection 4865 A Tower circuit 600 V CSA Power circuit 600 V UL	Range	•
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voltage Power circuit 600 V UL	•	4865 A
		Power circuit 600 V UL

Complementary

Rail, with specific accessories Under contactor Tripping threshold 1.14 +/- 0.06 Ir IEC 60947-4-1 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal current 5 A signalling circuit Permissible current 0.95 A 380 V AC-15 signalling circuit Permissible current 0.96 A 440 V DC-13 signalling circuit [Ue] rated operational voltage 690 V AC 0400 Hz power circuit IEC 60947-4-1 Associated fuse rating 4 A gG for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Phase failure sensitivity 7ripping current 130 % of Ir on two phase, the last one at 0 Control type Red push-button stop Blue push-button reset Temperature compensation 4140 °F (-2060 °C) Connections - terminals Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end	Complementary	
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Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal current 5 A signalling circuit 0.95 A 380 V AC-15 signalling circuit 0.95 A 380 V AC-15 signalling circuit 0.95 A 380 V AC-15 signalling circuit 1 NO + 1 NC 0.95 A 380 V AC-15 signalling circuit 0.95 A 380 V AC-15 signalling circuit 0.95 A 380 V AC-15 signalling circuit 1 A gG for signalling circuit 2 A gG for signalling circuit 2 A gG for signalling circuit 3 A gG for signalling circuit 4 A gG for signalling circuit 4 A gG for signalling circuit 5 A gG for signalling circuit 4 A gG for signalling circuit 4 A gG for signalling circuit 5 A gG for signalling circuit 4 A gG for signalling circuit 4 A gG for signalling circuit 4 A gG for signalling circuit 5 A gG for signalling circuit 6 kV Phase failure sensitivity Tripping current 130 % of Ir on two phase, the last one at 0 Control type Red push-button stop Blue push-button reset 7 Control circuit screw clamp terminals 2 0.0000 in² (12.5 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.0000 in² (12.5 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Tightening torque Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors	Mounting support	Rail, with specific accessories
[Ith] conventional free air thermal current 5 A signalling circuit 0.95 A 380 V AC-15 signalling circuit 0.06 A 440 V DC-13 signalling circuit [Ue] rated operational voltage 690 V AC 0400 Hz power circuit IEC 60947-4-1 Associated fuse rating 4 A gG for signalling circuit 4 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Phase failure sensitivity 7 ripping current 130 % of Ir on two phase, the last one at 0 Control type 8 Red push-button stop Blue push-button reset Temperature compensation 4140 °F (-2060 °C) Connections - terminals Control circuit screw clamp terminals 2 0.00000 in² (12.5 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.00000 in² (12.5 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) flexible without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) flexible without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) solid without cable end Tightening torque Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit EverLink BTR screw connectors	Tripping threshold	1.14 +/- 0.06 Ir IEC 60947-4-1
Permissible current 0.95 A 380 V AC-15 signalling circuit 0.06 A 440 V DC-13 signalling circuit [Ue] rated operational voltage 690 V AC 0400 Hz power circuit IEC 60947-4-1 Associated fuse rating 4 A gG for signalling circuit 4 A BS for signalling circuit (Uimp] rated impulse withstand voltage 6 kV Phase failure sensitivity Tripping current 130 % of Ir on two phase, the last one at 0 Control type Red push-button stop Blue push-button reset Temperature compensation -4140 °F (-2060 °C) Connections - terminals Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) solid without cable end Control circuit screw clamp terminals 2 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.5 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Tightening torque Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors	Auxiliary contact composition	1 NO + 1 NC
Ue rated operational voltage 690 V AC 0400 Hz power circuit IEC 60947-4-1	[lth] conventional free air thermal current	5 A signalling circuit
Associated fuse rating 4 A gG for signalling circuit 4 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Phase failure sensitivity Tripping current 130 % of Ir on two phase, the last one at 0 Control type Red push-button stop Blue push-button reset Temperature compensation -4140 °F (-2060 °C) Connections - terminals Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Tightening torque Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors	Permissible current	
[Uimp] rated impulse withstand voltage 6 kV Phase failure sensitivity Tripping current 130 % of Ir on two phase, the last one at 0 Control type Red push-button stop Blue push-button reset Temperature compensation -4140 °F (-2060 °C) Connections - terminals Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit teverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors	[Ue] rated operational voltage	690 V AC 0400 Hz power circuit IEC 60947-4-1
Phase failure sensitivity Tripping current 130 % of Ir on two phase, the last one at 0 Red push-button stop Blue push-button reset Temperature compensation -4140 °F (-2060 °C) Connections - terminals Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Tightening torque Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors	Associated fuse rating	
Control type Red push-button stop Blue push-button reset Temperature compensation -4140 °F (-2060 °C) Connections - terminals Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Tightening torque Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors	[Uimp] rated impulse withstand voltage	6 kV
Blue push-button reset Temperature compensation -4140 °F (-2060 °C) Connections - terminals Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Tightening torque Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors	Phase failure sensitivity	Tripping current 130 % of Ir on two phase, the last one at 0
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without cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid without cable end Tightening torque Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors	Temperature compensation	-4140 °F (-2060 °C)
Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors	Connections - terminals	without cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) solid without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) solid
Height 2.76 in (70 mm)	Tightening torque	
	Height	2.76 in (70 mm)

Width

2.17 in (55 mm)

Depth	4.84 in (123 mm)
Net Weight	0.83 lb(US) (0.375 kg)

Environment

Climatic withstand	IACS E10
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-4140 °F (-2060 °C) without derating IEC 60947-4-1
Ambient Air Temperature for Storage	-76158 °F (-6070 °C)
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks15 Gn for 11 ms IEC 60068-2-7 Vibrations4 gn IEC 60068-2-6
Dielectric strength	1.89 kV 50 Hz IEC 60947-1
Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 GB/T 14048.5
Product Certifications	IEC[RETURN]UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]DNV-GL[RETURN]RMRS[RETURN]EU-RO MR[RETURN]LROS (Lloyds register of shipping)[RETURN]UKCA

Ordering and shipping details

Category	US10I1222347
Discount Schedule	0112
GTIN	3389119215930
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.56 in (6.5 cm)
Package 1 Width	4.33 in (11.0 cm)
Package 1 Length	5.51 in (14.0 cm)
Package 1 Weight	13.86 oz (393.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	13
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	12.12 lb(US) (5.496 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 EPEU 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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Contractual warranty	
Warranty	18 months