

Certificate of Compliance

Certificate: 80226727 Master Contract: 152167

Project: 80226727 **Date Issued:** 2024-11-06

Issued to: Littelfuse, Inc.

8755 W. Higgins Rd Suite 500

Chicago, Illinois 60631

United States

Attention: Yvonne Wang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicator "Triangle symbol"

® A **Issued by:** Vasyl Dykhman Vasyl Dykhman

PRODUCTS

Class 4824 31 SENSORS FOR MONITORING, PROTECTION AND LIMITING - Thermistor-type components

Battery strap PTC thermistors for overcurrent protection.

Model(s)	Vmax (V)	Imax (A)	It (A)	Ih (A)	Iss (A)	Ts (C)	Rmin (Ohm)	TT (sec)
LR4-170	15	100	3.40	1.70	0.133	125	0.044	5.0 @ 8.5A
LR4-190F	15	100	3.90	1.90	0.080	125	0.039	5.0 @ 9.5A
LR4-260F	15	100	5.80	2.60	0.167	125	0.020	5.0 @ 13.0A
LR4-380F/LR4-380XF	15	100	8.30	3.80	0.167	125	0.013	5.0 @ 19.0A
LR4-450F	20	100	8.90	4.50	0.115	125	0.011	5.0 @ 22.5A
LR4-550F	20	100	10.50	5.50	0.140	125	0.009	5.0 @ 27.5A
LR4-600F/LR4-600XF	20	100	11.70	6.00	0.140	125	0.007	5.0 @ 30.0A
LR4-730F	20	100	14.10	7.30	0.165	125	0.006	5.0 @ 30.0A
LR4-900F	20	100	16.70	9.00	0.190	125	0.006	5.0 @ 45.0A
LR4-970	20	100	17.70	9.70	0.190	125	0.0065	5.0 @ 48.5A
LR4-1300SSF	20	100	21.20	13.00	0.346	125	0.0035	10.0 @ 50.0A



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LR4-1420F	20	100	30.0	14.20	0.300	125	0.0026	5.0 @ 71.0A
PSR-24466, PSR- 25002, PSR-25393	15	40	6.40/6.80/7.20	2.80	0.167	125	0.015/0.009/0.006	5.0 @ 14.0A
PSR-24535	15	40	6.30	2.50	0.167	125	0.013	5.0 @ 12.5A
PSR-24770, PSR- 26476	15	40	5.0/5.2	2.20	0.167	125	0.015/0.016	5.0 @ 11.0A
PSR-25091	16/32	100/5.0	4.70	2.10	0.094	125	0.017	5.0 @ 10.0A 13.0 @ 5.0A
PSR-25330	16	100	3.20	1.50	0.087	125	0.029	5.0 @ 7.5A
PSR-25579	12	100	4.10	1.70	0.117	125	0.017	5.0 @ 8.75A
PSR-25632	16	100	2.80	1.20	0.094	125	0.029	5.0 @ 6.0A
PSR-25846, PSR- 27627	16	60	4.10	1.80	0.119	125	0.012	5.0 @ 9.0A
PSR-25857A, PSR- 26627	12	100	4.20	1.75	0.158	125	0.017	5.0 @ 8.75A
PSR-26695	12	100	4.30	1.50	0.117	125	0.018	5.0 @ 7.5A
PSR-27679	15	100	5.80	2.60	0.167	125	0.020	5.0 @ 13.0A
SRP120F	15	100	2.70	1.20	0.080	125	0.085	5.0 @ 6.0A
SRP175F	15	100	3.80	1.75	0.100	125	0.05	5.0 @ 8.75A
SRP200F	30	100	4.40	2.20	0.063	125	0.03	4.0 @ 10.0A
SRP350F	30	100	6.30	3.50	0.083	125	0.017	3.0 @ 20.0A
SRP420F	30	100	7.60	4.20	0.097	125	0.012	6.0 @ 20.0A
VLP120	16	60	3.60	1.20	0.100	125	0.039	5.0 @ 7.0A
VLP175	15	60	3.90	1.75	0.112	125	0.023	5.0 @ 8.75A
VLP190	16	60	4.70	1.90	0.112	125	0.025	5.0 @ 9.5A
VLP200UW-C48F	16	60	4.70	2.00	0.112	125	0.018	5.0 @ 10.0A
VLP210F	16	60	5.00	2.10	0.094	125	0.018	5.0 @ 10.50
VLP220, VLP220N- C30F	16	60	5.30	2.20	0.112	125	0.017	5.0 @ 11.0A
VLP270	16	60	6.50	2.70	0.156	125	0.012	5.0 @ 13.50
VLP280W	16	60	7.60	2.80	0.156	125	0.008	5.0 @ 15.0A
VLR110	12	100	2.90	1.10	0.108	125	0.038	5.0 @ 5.5A
VLR150	12	100	4.30	1.50	0.117	125	0.018	5 @ 7.5A
VLR170F	12	100	4.10	1.70	0.117	125	0.018	5.0 @ 8.5A
VLR170U-C30F	12	100	4.10	1.70	0.117	125	0.018	5.0 @ 8.5A
VLR175F/VLR175LF	12	100	4.20	1.75	0.117	125	0.017	5.0 @ 8.75A
VLR230F	12	100	5.0	2.30	0.208	175	0.012	5.0 @ 10.0A
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VTP110F	16	100	2.70	1.10	0.081	125	0.038	5.0 @ 5.50A
VTP140	16	100	3.20	1.40	0.087	125	0.038	5.0 @ 7.0A
VTP170F/VTP170XSF	16	100	3.40	1.70	0.087	125	0.030	5.0 @ 8.50A
VTP175F, VTP175LF, PSR-25616	16	100	3.60	1.75	0.087	125	0.029	5.0 @ 8.75A

Model(s)	Vmax (V)	Imax (A)	It (A)	Ih (A)	Iss (A)	Ts (C)	Rmin (Ohm)	TT (sec)
VTP210GF or SF, PSR-24908	16	100	4.70	2.10	0.094	125	0.018	5.0 @ 10.0A

Notes:

- 1. The devices are certified as components only for use in equipment where the suitability of the combination is to be determined by the Authority that certifies the end product.
- 2. These devices have not been investigated for use in a functional safety circuit.
- 3. Suffixes denoting different lead configuration, different lead length, different lead plating, different shipping packaging method, or resistance matching may be added.
- 4. Rating:

The maximum rated ambient temperature is 85°C for all models.

Vmax - maximum voltage of a thermistor as declared by the manufacturer.

Imax - current value assigned by the manufacturer that complies with all the requirements of the standard.

It - for a current-limiting PTC thermistor, minimum current value declared by the manufacturer at which a PTC thermistor switches from low to high resistance at a specified temperature or temperature range.

Ih - maximum current a current limiting PTC thermistor is able to maintain in a low resistance "on" state at rated ambient for a period of time specified by the manufacturer.

Iss – steady state current measured after a thermistor's temperature stabilizes in air at an ambient temperature specified by the manufacturer while connected to rated voltage and while operating in its high-resistance state for PTC thermistors

Ts - temperature of the surface of a thermistor while the thermistor is energized under normal operating conditions.

Rmin - rated resistance at 20 degrees C ambient temperature unless specified by the manufacturer.

TT - time-to-trip time required for a PTC thermistor to limit the manufacturer's declared trip current (It) to 50 % of its value when energized at the rated voltage and ambient temperature.

APPLICABLE REQUIREMENTS

CSA E60730-1:15, AMD1:2017, AMD2:2021 - Automatic electrical controls — Part 1: General requirements

CAN/CSA-E60730-2-9:18, AMD2:2024 - Automatic electrical controls — Part 2-9: Particular requirements for temperature sensing controls