



Certificate of Compliance

Certificate: 80226728 **Master Contract:** 152167
Project: 80226728 **Date Issued:** 2024-11-12
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"



Issued by: Vasyl Dykhman
Vasyl Dykhman

PRODUCTS

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

PTC thermistors for overcurrent protection and Class 2 limiting.

Model(s)	Vmax (V)	Imax (A)	It (A)	Ih (A)	Iss (A)	Ts (C)	Rmin (Ohm)	TT (sec)
LVR005NK/NS	240/120	1.0/20	0.12	0.05	0.004/0.007	125	18.5	10.0 @ 0.25A
LVR008NK/NS	240/120	1.2/20	0.19	0.08	0.004/0.007	125	7.4	10.0 @ 0.40A
LVR012K/S	240/120	1.2/20	0.30	0.12	0.004/0.008	125	3.0	15.0 @ 0.60A
LVR016K/S	240/120	2/20	0.37	0.16	0.006/0.012	125	2.5	15.0 @ 0.8A
LVR025K/S	240/120	3.5/20	0.56	0.25	0.006/0.012	125	1.30	18.5 @ 1.25A
LVR033K/S	240/120	4.5/20	0.74	0.33	0.007/0.014	125	0.77	21.0 @ 1.65A
LVR040K/S	240/120	5.5/20	0.90	0.40	0.008/0.017	125	0.60	24.0 @ 2.0A
LVR055K/S	240/120	7/20	1.25	0.55	0.014/0.028	125	0.45	26.0 @ 2.75A
LVR075K/S	240	7.5	1.50	0.75	0.011	125	0.316	18.0 @ 3.75A



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LVR100K/S	240	10	2.00	1.00	0.012	125	0.218	21.0 @ 5.0A
LVR125K/S	240	12.5	2.50	1.25	0.014	125	0.165	23.0 @ 6.25A
LVR200K/S	240	20	4.00	2.00	0.019	125	0.089	28.0 @ 10.0A
PSR-25115	60	3.0	0.30	0.140	0.018	165	3.50	0.22 @ 3.0A
PSR-25710	30	40	0.92	0.50	0.030	165	0.48	2.50 @ 2.50A
PSR-29325	16	100	12.00	6.50	0.256	165	0.011	5.5 @ 32.5A
RHEF050	30	40	0.90	0.50	0.030	165	0.48	2.50 @ 2.50A
RHEF070	30	40	1.40	0.70	0.047	165	0.30	3.20 @ 3.50A
RHEF100	30	40	1.80	1.00	0.047	165	0.18	5.20 @ 5.0A
RHEF200	16	100	3.80	2.00	0.087	165	0.045	4.30 @ 10.0A
RHEF300	16	100	6.00	3.00	0.187	165	0.033	5.0 @ 15.0A
RHEF400	16	100	7.50	4.00	0.206	165	0.024	5.0 @ 20.0A
RHEF450	16	100	7.80	4.50	0.225	165	0.022	3.0 @ 22.5A
RHEF550	16	100	10.00	5.50	0.219	165	0.015	6.0 @ 27.50A
RHEF600	16	100	10.80	6.00	0.256	165	0.013	5.0 @30.0A
RHEF650	16	100	12.00	6.50	0.256	165	0.011	5.5 @ 32.50A
RHEF700	16	100	13.00	7.00	0.250	165	0.01	7.0 @ 35.0A
RHEF750	16	100	13.10	7.50	0.281	165	0.0094	7.0 @ 37.50A
RHEF800	16	100	15.00	8.00	0.262	165	0.008	8.0 @ 40.0A
RHEF900	16	100	16.50	9.00	0.312	165	0.0074	10.0 @ 45.0A
RHEF1000	16	100	18.50	10.00	0.331	165	0.0062	9.0 @ 50.0A
RHEF1100	16	100	20.00	11.00	0.344	165	0.0055	11.0 @ 55.0A
RHEF1300	16	100	24.00	13.00	0.431	165	0.0041	13.0 @ 65.0A
RHEF1400	16	100	27.00	14.00	0.431	165	0.0030	13.0 @ 70.0A
RHEF1500	16	100	28.00	15.00	0.437	165	0.0032	20.0 @ 75.0A
RKEF050	60	40	1.00	0.50	0.017	125	0.32	0.80 @ 8.0A
RKEF065	60	40	1.30	0.65	0.021	125	0.25	1.0 @ 8.0A
KEF075	60	40	1.50	0.75	0.023	125	0.20	1.50 @ 8.0A
RKEF090	60	40	1.80	0.90	0.025	125	0.19	2.0 @ 8.0A
RKEF110	60	40	2.20	1.10	0.037	125	0.17	3.0 @ 8.0A
RKEF135	60	40	2.70	1.35	0.038	125	0.11	4.5 @ 8.0A
RKEF160	60	40	3.20	1.60	0.040	125	0.10	9.0 @ 8.2A
RKEF185	60	40	3.70	1.85	0.043	125	0.06	12.6 @ 9.25A



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RKEF250	60	40	5.00	2.50	0.046	125	0.04	15.6 @ 12.5A
RKEF300	60	40	6.00	3.00	0.053	125	0.03	19.8 @ 15.0A
RKEF375	60	40	7.50	3.75	0.057	125	0.017	22.0 @ 18.75A
RKEF400	60	40	8.00	4.00	0.062	125	0.014	24.0 @ 20.0A
RKEF500	60	40	10.00	5.00	0.083	125	0.012	28.0 @ 25.0A
RUEF090	30	100	1.80	0.90	0.020	125	0.070	5.9 @ 4.50A
RUEF110	30	100	2.20	1.10	0.023	125	0.070	6.6 @ 5.50A
RUEF135	30	100	2.70	1.35	0.027	125	0.040	7.3 @ 6.75A
RUEF160	30	100	3.20	1.60	0.030	125	0.030	8.0 @ 8.0A
RUEF185	30	100	3.70	1.85	0.033	125	0.030	8.7 @ 9.25A
RUEF250	30	100	5.00	2.50	0.040	125	0.020	10.3 @ 12.5
RUEF300	30	100	6.00	3.00	0.067	125	0.020	10.8 @ 15.0A
RUEF400	30	100	8.00	4.00	0.083	125	0.010	12.7 @ 20.0A
RUEF500	30	100	10.00	5.00	0.100	125	0.010	14.5 @ 25.0A
RUEF600	30	100	12.00	6.00	0.117	125	0.005	16.0 @ 30.0A
RUEF700	30	100	14.00	7.00	0.127	125	0.005	17.5 @ 35.0A
RUEF800	30	100	16.00	8.00	0.133	125	0.005	18.8 @ 40.0A
RUEF900	30	100	18.00	9.00	0.140	125	0.005	20.0 @ 45.0A
RUSBF075	6	40	1.30	0.75	0.050	125	0.11	0.4 @ 8.0A
RUSBF090	16	40	1.80	0.90	0.037	125	0.07	1.2 @ 8.0A
RUSBF110	16	40	2.20	1.10	0.044	125	0.05	2.3 @ 8.0A
RUSBF120	6	40	2.00	1.20	0.100	125	0.070	0.5 @ 8.0A
RUSBF135	16	40	2.70	1.35	0.050	125	0.04	4.5 @ 8.0A
RUSBF155	6	40	2.65	1.55	0.100	125	0.04	2.2 @ 7.80A
RUSBF160	16	40	3.20	1.60	0.056	125	0.03	9.0 @ 8.0A
RUSBF185	16	40	3.70	1.85	0.062	125	0.03	10.0 @ 8.0A
RUSBF250	16	40	5.00	2.50	0.075	125	0.02	40.0 @ 8.0A
RXEF005	60	40	0.10	0.05	0.004	125	7.3	5.0 @ 0.25A
RXEF010	60	40	0.20	0.10	0.006	125	2.5	4.0 @ 0.50A
RXEF017	60	40	0.34	0.17	0.008	125	3.3	3.0 @ 0.85A
RXEF020	72	40	0.40	0.20	0.006	125	1.83	2.2 @ 1.0A
RXEF025	72	40	0.50	0.25	0.006	125	1.25	2.5 @ 1.25A



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RXEF030	72	40	0.60	0.30	0.007	125	0.88	3.0 @ 1.50A
RXEF040	72	40	0.80	0.40	0.008	125	0.55	3.8 @ 2.0A
RXEF050	72	40	1.00	0.50	0.011	125	0.50	4.0 @ 2.50A
RXEF065	72	40	1.30	0.65	0.012	125	0.31	5.3 @ 3.25A
RXEF075	72	40	1.50	0.75	0.013	125	0.25	6.3 @ 3.75A
RXEF090	72	40	1.80	0.90	0.014	125	0.20	7.2 @ 4.50A
RXEF110	72	40	2.20	1.10	0.021	125	0.15	8.2 @ 5.50A
RXEF135	72	40	2.70	1.35	0.024	125	0.12	9.6 @ 6.75A
RXEF160	72	40	3.20	1.60	0.026	125	0.09	11.4 @ 8.0A
RXEF185	72	40	3.70	1.85	0.029	125	0.08	12.6 @ 9.25A
RXEF250	72	40	5.00	2.50	0.035	125	0.05	15.6 @ 12.50A
RXEF300	72	40	6.00	3.00	0.039	125	0.04	19.8 @ 15.0A
RXEF375	72	40	7.50	3.75	0.044	125	0.03	24 @ 18.75A
TRF250-80T/U	60	3.0	0.16	0.08	0.010	125	15/14	4.0/2.5 @ 0.35A
TRF250-110U	60	3.0	0.220	0.110	0.010	125	5.0	0.8 @ 1.0A
TRF250-120/TRF250-120U	60	3.0	0.240	0.120	0.013	125	4.0/6.0	1.5/1.0 @ 1.0A
TRF250-145/TRF250-145U	60	3.0	0.290	0.145	0.013	125	3.0/3.5	2.5/2.0 @ 1.0A
TRF250-180	100	10	0.650	0.180	0.009	125	0.8	0.5 @ 3.0A
TRF250-183/U, PSR-25338-X1	100	10	0.685	0.183	0.009	125	0.8	0.6 @ 3.0A
TRF250-184, PSR-25600H2	100	10	1.00	0.184	0.009	125	1.2	0.5 @ 3.0A
TRF600-150	250	3.0	0.30	0.150	0.006	125	6.0	1.4 @ 1.0A
TRF600-160, PSR-24883	250	3.0	0.320	0.160	0.007	125	4.0	7.5 @ 1.0A
TRF600-250	250	3.0	0.850	0.250	0.008	125	1.0	1.0 @ 3.0A
TRF600-400	60	3.0	1.00	0.40	0.040	125	0.95	4.0 @ 3.0A
TS250-130F, PSR-24062	60	3.0	0.260	0.130	0.018	125	6.5	0.9 @ 1.0A
TSL250-080F	80	3.0	0.240	0.080	0.015	125	5.0	0.8 @ 1.0A



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TSM600-250F	250	3.0	0.860	0.250	0.008	125	1.0	0.8 @ 3.0A
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Model(s)	Vmax (V)	Imax (A)	It (A)	Ih (A)	Iss (A)	Ts (C)	Rmin (Ohm)	TT (sec)
TSV250-130F	60	3.0	0.260	0.130	0.025	125	4.0	2.0 @ 1.0A

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 plating, different shipping packaging methods, or resistance matching may be added.
4. Rating:

The maximum rated ambient temperature for PTC made with PE material is 85C and with PVDF material is 125C.

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