ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

C E R T I F I C A T E

No. B 096048 0005 Rev. 01

Holder of Certificate: **BESTBRIGHT ELECTRONICS CO LTD**
#3 Building, Modern Enterprise
Accelerator Park
Song Shan Lake High-tech Industrial Development Zone
523808 Dongguan City, Guangdong Province
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Product: **Thermistors**
(PTC thermistor for current limitation)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64100170330702

Valid until: 2027-12-28

Date, 2022-12-30

(Martin Ma)

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Model(s):

BK16 series, BK30 series, BK60 series, BK250 series, BK600 series
(BK16-300-Sx, BK16-400-Sx, BK16-500-Sx, BK16-600-Sx, BK16-700-Sx, BK16-800-Sx, BK16-900-Sx, BK16-1000-Sx, BK16-1100-Sx, BK16-1200-Sx, BK16-1400-Sx;
BK30-090-Sx, BK30-110-Sx, BK30-135-Sx, BK30-160-Sx, BK30-185-Sx, BK30-200-Sx, BK30-250-Sx, BK30-300-Sx, BK30-400-Sx, BK30-500-Sx, BK30-600-Sx, BK30-700-Sx, BK30-800-Sx, BK30-900-Sx;
BK60-005-Dx, BK60-010-Dx, BK60-017-Dx, BK60-020-Dx, BK60-025-Dx, BK60-030-Dx, BK60-040-Dx, BK60-050-Dx, BK60-065-Dx, BK60-075-Dx, BK60-090-Dx, BK60-110-Dx, BK60-110-Sx, BK60-135-Dx, BK60-160-Dx, BK60-185-Dx, BK60-200--Dx, BK60-250-Dx, BK60-300-Dx, BK60-375-Dx;
BK250-030-Dx, BK250-040-Dx, BK250-060-Dx, BK250-080-Dx, BK250-090-Dx, BK250-110-Sx, BK250-120-Sx, BK250-145-Sx, BK250-180-Sx, BK250-180-Dx, BK250-200-Sx, BK250-200-Dx, BK250-250-Sx, BK250-400-Sx, BK250-600-Sx, BK250-800-Sx; BK600-110-Sx, BK600-150-Sx, BK600-160-Sx;)

Parameters:

Type	PTC thermistor for current limitation
Upper/Lower category temperature (UCT/LCT)	85°C/-40°C
Operating temperature range at maximum voltage	0-40°C
Maximum voltage (Umax):	See Electrical Rating table
Endurance at room temperature (cycling):	1000 cycles, no burning or arcing. ΔR/R limit =±50%.
Endurance at upper category temperature	1000h. ΔR/R limit =±50%.
Endurance at maximum operating temperature and maximum voltage:	500h, No burning or arcing.
Damp heat, steady state	21 day. ΔR/R limit =±20%
Cold environmental electrical cycling:	1000 cycles, no burning or arcing. ΔR/R limit =±50%.
Thermal runaway by increased voltage:	2Umax, No burning, arcing or breakdown.

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Tested according to: EN 60738-1:2006/A1:2009
EN 60738-1-1:2008

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C E R T I F I C A T E

No. B 096048 0005 Rev. 01

Parameters:

BK16 series:

Model	U_{max} (Vdc)	Current				R_{23} (Ω)		Time-to-trip	
		$I_{max.nt}$ (A)	I_{res} (A)	I_t(A)	I_{mo} (A)	R_{min}	R_{max}	T (s)	I (A)
BK16-300-Sx	16	3.0	0.08	6.0	100	0.0200	0.0975	1.0	15
BK16-400-Sx	16	4.0	0.08	8.0	100	0.0180	0.0600	1.7	20
BK16-500-Sx	16	5.0	0.09	10.0	100	0.0140	0.0340	2.0	25
BK16-600-Sx	16	6.0	0.10	12.0	100	0.0090	0.0280	3.3	30
BK16-700-Sx	16	7.0	0.11	14.0	100	0.0077	0.0200	3.5	35
BK16-800-Sx	16	8.0	0.11	16.0	100	0.0056	0.0175	5.6	40
BK16-900-Sx	16	9.0	0.12	18.0	100	0.0040	0.0135	4.7	45
BK16-1000-Sx	16	10.0	0.15	20.0	100	0.0040	0.0110	6.0	50
BK16-1100-Sx	16	11.0	0.15	22.0	100	0.0030	0.0100	7.0	55
BK16-1200-Sx	16	12.0	0.17	24.0	100	0.0030	0.0090	7.5	60
BK16-1400-Sx	16	14.0	0.20	28.0	100	0.0026	0.0080	9.0	70
Remark: x can be A to Z or 1 to 9, standing for Customer code.									

BK30 series:

Model	U_{max} (Vdc)	Current				R_{23} (Ω)		Time-to-trip	
		$I_{max.nt}$ (A)	I_{res} (A)	I_t(A)	I_{mo} (A)	R_{min}	R_{max}	T (s)	I (A)
BK30-090-Sx	30	0.90	0.01	1.80	40	0.070	0.220	5.9	4.5
BK30-110-Sx	30	1.10	0.01	2.20	40	0.050	0.200	6.6	5.5
BK30-135-Sx	30	1.35	0.02	2.70	40	0.040	0.160	7.3	6.75
BK30-160-Sx	30	1.60	0.02	3.20	40	0.030	0.140	8.0	8
BK30-185-Sx	30	1.85	0.03	3.70	40	0.030	0.120	8.7	9.25
BK30-200-Sx	30	2.00	0.03	4.00	40	0.035	0.100	9.8	10
BK30-250-Sx	30	2.50	0.05	5.00	40	0.020	0.080	10.3	12.5
BK30-300-Sx	30	3.00	0.06	6.00	40	0.020	0.080	10.8	15
BK30-400-Sx	30	4.00	0.06	8.00	40	0.010	0.060	12.7	20
BK30-500-Sx	30	5.00	0.07	10.00	40	0.010	0.050	14.5	25
BK30-600-Sx	30	6.00	0.08	12.00	40	0.005	0.040	16.0	30
BK30-700-Sx	30	7.00	0.09	14.00	40	0.005	0.030	17.5	35
BK30-800-Sx	30	8.00	0.10	16.00	40	0.005	0.025	18.8	40
BK30-900-Sx	30	9.00	0.11	18.00	40	0.005	0.020	20.0	45
Remark: x can be A to Z or 1 to 9, standing for Customer code.									

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BK60 series:

Model	U_{max} (Vdc)	Current				R_{23} (Ω)		Time-to-trip	
		$I_{max.nt}$ (A)	I_{res} (A)	I_t(A)	I_{mo} (A)	R_{min}	R_{max}	T (s)	I (A)
BK60-005-Dx	60	0.05	0.01	0.10	40	7.50	25.0	5.0	0.25
BK60-010-Dx	60	0.10	0.01	0.20	40	2.50	7.50	4.0	0.5
BK60-017-Dx	60	0.17	0.01	0.34	40	1.80	8.00	3.0	0.85
BK60-020-Dx	60	0.20	0.02	0.40	40	1.50	4.40	2.2	1.0
BK60-025-Dx	60	0.25	0.02	0.50	40	1.00	3.00	2.5	1.25
BK60-030-Dx	60	0.30	0.02	0.60	40	0.70	2.10	3.0	1.5
BK60-040-Dx	60	0.40	0.02	0.80	40	0.50	1.29	3.8	2
BK60-050-Dx	60	0.50	0.02	1.00	40	0.35	1.17	4.0	2.5
BK60-065-Dx	60	0.65	0.03	1.30	40	0.30	0.72	5.3	3.25
BK60-075-Dx	60	0.75	0.03	1.50	40	0.25	0.60	6.3	3.75
BK60-090-Dx	60	0.90	0.03	1.80	40	0.20	0.47	7.2	4.5
BK60-110-Dx	60	1.10	0.03	2.20	40	0.15	0.38	8.2	5.5
BK60-110-Sx	60	1.10	0.03	2.20	40	0.15	0.38	8.2	5.5
BK60-135-Dx	60	1.35	0.04	2.70	40	0.12	0.30	9.6	6.75
BK60-160-Dx	60	1.60	0.04	3.20	40	0.09	0.22	11.4	8
BK60-185-Dx	60	1.85	0.05	3.70	40	0.08	0.19	12.6	9.25
BK60-200--Dx	60	2.00	0.05	4.00	40	0.08	0.19	14.5	10.0
BK60-250-Dx	60	2.50	0.05	5.00	40	0.05	0.13	15.6	12.5
BK60-300-Dx	60	3.00	0.06	6.00	40	0.04	0.10	19.8	15
BK60-375-Dx	60	3.75	0.06	7.50	40	0.03	0.08	24.0	18.75
Remark: x can be A to Z or 1 to 9, standing for Customer code.									

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BK250 series:

Model	U_{max} (Vac)	Current				R_{23} (Ω)		Time-to-trip	
		$I_{max.nt}$ (A)	I_{res} (A)	I_t(A)	I_{mo} (A)	R_{min}	R_{max}	T (s)	I (A)
BK250-030-Dx	250	0.03	0.002	0.06	1	35.0	90.0	5.0	0.15
BK250-040-Dx	250	0.04	0.003	0.08	3	27.0	65.0	6.0	0.2
BK250-060-Dx	250	0.06	0.003	0.12	3	20.0	45.0	5.0	0.3
BK250-080-Dx	250	0.08	0.003	0.16	3	10.0	22.0	5.0	0.4
BK250-090-Dx	250	0.09	0.003	0.18	3	7.0	20.0	5.0	0.45
BK250-110-Sx	250	0.11	0.004	0.22	3	6.0	12.0	5.0	0.55
BK250-120-Sx	250	0.12	0.004	0.24	3	6.0	10.5	5.0	0.6
BK250-145-Sx	250	0.145	0.004	0.29	3	3.0	6.5	15.0	0.73
BK250-180-Sx	250	0.18	0.005	0.54	10	1.0	3.9	15.0	0.9
BK250-180-Dx	250	0.18	0.005	0.54	10	1.0	3.9	15.0	0.9
BK250-200-Sx	250	0.20	0.005	0.40	10	3.0	6.0	9.0	1.0
BK250-200-Dx	250	0.20	0.005	0.40	10	3.0	6.0	9.0	1.0
BK250-250-Sx	250	0.25	0.005	0.50	10	1.6	4.8	7.0	1.25
BK250-400-Sx	250	0.40	0.007	0.80	10	1.0	3.0	9.0	2.0
BK250-600-Sx	250	0.60	0.009	1.20	10	0.6	2.0	8.0	3.0
BK250-800-Sx	250	0.80	0.010	1.60	10	0.4	1.0	18.0	4.0
Remark: x can be A to Z or 1 to 9, standing for Customer code.									

BK600 series:

Model	U_{max} (Vac)	Current				R_{23} (Ω)		Time-to-trip	
		$I_{max.nt}$ (A)	I_{res} (A)	I_t(A)	I_{mo} (A)	R_{min}	R_{max}	T (s)	I (A)
BK600-110-Sx	600	0.11	0.002	0.22	3	6.0	18.0	7.0	1
BK600-150-Sx	600	0.15	0.002	0.30	3	5.0	15.0	6.0	1
BK600-160-Sx	600	0.16	0.002	0.32	3	4.0	12.0	7.5	1
Remark: x can be A to Z or 1 to 9, standing for Customer code.									

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