



Product Service

CERTIFICATE

No. B 102578 0004 Rev. 01

Holder of Certificate: Yageo Corporation

3F, No.233-1, Baoqiao Rd.
Xindian Dist.
23145 New Taipei City
TAIWAN

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.: 64100170330702A

Valid until: 2027-12-28

Date, 2023-01-04

(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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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

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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

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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.