



Product Service

CERTIFICATE

No. B 096048 0007 Rev. 01

Model(s):

SP, NT Series, TDC Series

(N05SP004%&&***, BKN05SP004%&&***, N05SP005%&&***, BKN05SP005%&&***, N05SP006%&&***, BKN05SP006%&&***, N05SP007%&&***, BKN05SP007%&&***, N05SP008%&&***, BKN05SP008%&&***, N05SP009%&&***, BKN05SP009%&&***, N05SP010%&&***, BKN05SP010%&&***, N05SP010%&&***, BKN05SP010%&&***, N05SP012%&&***, BKN05SP012%&&***, N05SP013%&&***, BKN05SP013%&&***, N05SP015%&&***, BKN05SP015%&&***, N05SP016%&&***, BKN05SP016%&&***, N05SP020%&&***, BKN05SP020%&&***, N05SP021%&&***, BKN05SP021%&&***, N05SP025%&&***, BKN05SP025%&&***, N05SP026%&&***, BKN05SP026%&&***, N05SP030%&&***, BKN05SP030%&&***, N05SP045%&&***, BKN05SP045%&&***, NTB02-004%&&***, BKNTB02-004%&&***, NTB02-005%&&***, BKNTB02-005%&&***, NTB02-006%&&***, BKNTB02-006%&&***, NTB02-007%&&***, BKNTB02-007%&&***, NTB02-008%&&***, BKNTB02-008%&&***, NTB02-009%&&***, BKNTB02-009%&&***, NTB01-010%&&***, BKNTB01-010%&&***, NTB02-010%&&***, BKNTB02-010%&&***, NTB01-012%&&***, BKNTB01-012%&&***, NTB02-012%&&***, BKNTB02-012%&&***, NTB01-015%&&***, BKNTB01-015%&&***, NTB01-016%&&***, BKNTB01-016%&&***, NTBR3-020%&&***, BKNTBR3-020%&&***, NTB01-020%&&***, BKNTB01-020%&&***, NTBR3-025%&&***, BKNTBR3-025%&&***, NTB01-025%&&***, BKNTB01-025%&&***, NTBR3-030%&&***, BKNTBR3-030%&&***, NTBR25-045%&&***, BKNTBR25-045%&&***, N08SP003%&&***, BKN08SP003%&&***, N08SP004%&&***, BKN08SP004%&&***, N08SP005%&&***, BKN08SP005%&&***, N08SP006%&&***, BKN08SP006%&&***, N08SP007%&&***, BKN08SP007%&&***, N08SP008%&&***, BKN08SP008%&&***, N08SP009%&&***, BKN08SP009%&&***, N08SP010%&&***, BKN08SP010%&&***, N08SP011%&&***, BKN08SP011%&&***, N08SP012%&&***, BKN08SP012%&&***, N08SP013%&&***, BKN08SP013%&&***, N08SP014%&&***, BKN08SP014%&&***, N08SP015%&&***, BKN08SP015%&&***, N08SP020%&&***, BKN08SP020%&&***, N08SP022%&&***, BKN08SP022%&&***, N08SP033%&&***, BKN08SP033%&&***, NTD04-003%&&***, BKNTD04-003%&&***, NTD04-004%&&***, BKNTD04-004%&&***, NTD04-005%&&***, BKNTD04-005%&&***, NTD04-006%&&***, BKNTD04-006%&&***, NTD04-007%&&***, BKNTD04-007%&&***, NTD03-008%&&***, BKNTD03-008%&&***, NTD03-009%&&***, BKNTD03-009%&&***, NTD03-010%&&***, BKNTD03-010%&&***, NTD03-011%&&***, BKNTD03-011%&&***, NTD03-012%&&***, BKNTD03-012%&&***, NTD03-013%&&***, BKNTD03-013%&&***, NTD03-014%&&***, BKNTD03-014%&&***, NTD03-015%&&***, BKNTD03-015%&&***, NTD02-020%&&***, BKNTD02-020%&&***, NTD02-022%&&***, BKNTD02-022%&&***, NTD02-033%&&***, BKNTD02-033%&&***, N10SP0R7%&&***, BKN10SP0R7%&&***, N10SP001%&&***, BKN10SP001%&&***, N10SP001%&&***, BKN10SP001%&&***, N10SP1R3%&&***, BKN10SP1R3%&&***, N10SP1R5%&&***, BKN10SP1R5%&&***, N10SP002%&&***, BKN10SP002%&&***, N10SP002%&&***, BKN10SP002%&&***, N10SP2R5%&&***, BKN10SP2R5%&&***, N10SP2R5%&&***, BKN10SP2R5%&&***, N10SP003%&&***, BKN10SP003%&&***, N10SP003%&&***, BKN10SP003%&&***, N10SP004%&&***, BKN10SP004%&&***, N10SP005%&&***, BKN10SP005%&&***, N10SP006%&&***, BKN10SP006%&&***, N10SP007%&&***, BKN10SP007%&&***, N10SP008%&&***, BKN10SP008%&&***, N10SP009%&&***, BKN10SP009%&&***, N10SP010%&&***, BKN10SP010%&&***, N10SP011%&&***, BKN10SP011%&&***, N10SP012%&&***, BKN10SP012%&&***, N10SP013%&&***, BKN10SP013%&&***, N10SP014%&&***, BKN10SP014%&&***, N10SP015%&&***, BKN10SP015%&&***, N10SP016%&&***, BKN10SP016%&&***, N10SP017%&&***, BKN10SP017%&&***, N10SP017%&&***, BKN10SP017%&&***,

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 ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



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 BKTDC05C240%&&***, TDC05C245%&&***, BKTDC05C245%&&***,
 TDC05C247%&&***, BKTDC05C247%&&***, TDC05C250%&&***,
 BKTDC05C250%&&***, TDC05C260%&&***, BKTDC05C260%&&***,
 TDC05C310%&&***, BKTDC05C310%&&***, TDC05C312%&&***,
 BKTDC05C312%&&***, TDC05C315%&&***, BKTDC05C315%&&***,
 TDC05C320%&&***, BKTDC05C320%&&***, TDC05D330%&&***,
 BKTDC05D330%&&***, TDC05D333%&&***, BKTDC05D333%&&***,
 TDC05D347%&&***, BKTDC05D347%&&***, TDC05D350%&&***,
 BKTDC05D350%&&***, TDC05D410%&&***, BKTDC05D410%&&***,
 TDC05D415%&&***, BKTDC05D415%&&***, TDC05D420%&&***,
 BKTDC05D420%&&***, TDC05D422%&&***, BKTDC05D422%&&***,
 TDC05D433%&&***, BKTDC05D433%&&***, TDC05D440%&&***,
 BKTDC05D440%&&***, TDC05D447%&&***, BKTDC05D447%&&***,
 % can be A-Z and a-z, indicates Tolerance of Resistance at 25°C;
 & can be 0-9, mathematics symbol and letters, indicates Product
 Version;
 * can be A-Z, a-z and 0-9, indicates Additional Suffixes.)

Parameters:

Type:	NTC Thermistors for inrush current-limiting: SP, NT Series NTC Thermistors for sensing: TDC Series
Rated voltage:	240Vac/340Vdc for SP, NT Series
Climatic categories:	xx/xxx/42(see model list)
Zero-power resistance (R25):	see model list
Tolerance of R25:	±20%
B-value (B25/85):	see model list
Tolerance of B-value:	±10%
Maximum current at 25°C (Imax25):	see model list
Thermal time constant:	see model list
Dissipation factor:	see model list

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N05SP045%&&*** BKN05SP045%&&***	45	0.25	~35	~7	40	2800	1.5	-40~+170
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05Φ-NT Series:

Part Number	Zero Power Resistance	Maximum Steady State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Recommend Capacitance 340Vdc/240VAC	Beta Value (±10%)	Maximum Steady Power	Operating Temperature Range
(Model No.)	(Ω)	(A)	(s)	(mW/°C)	(μF)	(°K)	(W)	(°C)
NTB02-004%&&*** BKNTB02-004%&&***	4	2	~35	~7	60	2500	1.5	-40~+170
NTB02-005%&&*** BKNTB02-005%&&***	5	2	~35	~7	60	2500	1.5	-40~+170
NTB02-006%&&*** BKNTB02-006%&&***	6	2	~35	~7	60	2600	1.5	-40~+170
NTB02-007%&&*** BKNTB02-007%&&***	7	2	~35	~7	60	2600	1.5	-40~+170
NTB02-008%&&*** BKNTB02-008%&&***	8	2	~35	~7	60	2600	1.5	-40~+170
NTB02-009%&&*** BKNTB02-009%&&***	9	2	~35	~7	60	2600	1.5	-40~+170
NTB01-010%&&*** BKNTB01-010%&&***	10	1	~35	~7	60	2600	1.5	-40~+170
NTB02-010%&&*** BKNTB02-010%&&***	10	2	~35	~7	60	2800	1.5	-40~+170



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NTB01- 012%&&*** BKNTB01- 012%&&***	12	1	~35	~7	60	2800	1.5	-40~+170
NTB02- 012%&&*** BKNTB02- 012%&&***	12	2	~35	~7	60	2800	1.5	-40~+170
NTB01- 015%&&*** BKNTB01- 015%&&***	15	1	~35	~5	60	2800	1.5	-40~+170
NTB01- 016%&&*** BKNTB01- 016%&&***	16	1	~35	~5	60	2800	1.5	-40~+170
NTBR3- 020%&&*** BKNTBR3- 020%&&***	20	0.3	~35	~5	60	2800	1.5	-40~+170
NTB01- 020%&&*** BKNTB01- 020%&&***	20	1	~35	~5	60	2800	1.5	-40~+170
NTBR3- 025%&&*** BKNTBR3- 025%&&***	25	0.3	~35	~5	60	2800	1.5	-40~+170
NTB01- 025%&&*** BKNTB01- 025%&&***	25	1	~35	~5	60	2800	1.5	-40~+170
NTBR3- 030%&&*** BKNTBR3- 030%&&***	30	0.3	~35	~5	40	2800	1.5	-40~+170
NTBR25- 045%&&*** BKNTBR25- 045%&&***	45	0.25	~35	~7	40	2800	1.5	-40~+170

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08Φ-SP Series:

Part Number	Zero Power Resistance	Maximum Steady State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Recommend Capacitance 340Vdc/240VAC	Beta Value (±10%)	Maximum Steady Power	Operating Temperature Range
(Model No.)	(Ω)	(A)	(s)	(mW/°C)	(μF)	(°K)	(W)	(°C)
N08SP003%&&*** BKN08SP003%&&***	3	3	~48	~12	270	2500	2.3	-40~+170
N08SP004%&&*** BKN08SP004%&&***	4	3	~48	~12	270	2500	2.3	-40~+170
N08SP005%&&*** BKN08SP005%&&***	5	3	~48	~12	270	2600	2.3	-40~+170
N08SP006%&&*** BKN08SP006%&&***	6	3	~48	~12	270	2600	2.3	-40~+170
N08SP007%&&*** BKN08SP007%&&***	7	2	~48	~12	270	2800	2.3	-40~+170
N08SP008%&&*** BKN08SP008%&&***	8	3	~48	~12	300	2800	2	-40~+170
N08SP009%&&*** BKN08SP009%&&***	9	1.5	~45	~12	240	2800	2.3	-40~+170
N08SP010%&&*** BKN08SP010%&&***	10	3	~45	~12	240	2800	2	-40~+170
N08SP011%&&*** BKN08SP011%&&***	11	1.5	~45	~12	240	2800	2.3	-40~+170
N08SP012%&&*** BKN08SP012%&&***	12	3	~45	~12	240	2800	2	-40~+170
N08SP013%&&*** BKN08SP013%&&***	13	1.5	~45	~12	240	2800	2.3	-40~+170
N08SP014%&&*** BKN08SP014%&&***	14	1.5	~45	~12	240	2800	2.3	-40~+170
N08SP015%&&*** BKN08SP015%&&***	15	2	~45	~12	240	2800	2	-40~+170
N08SP020%&&*** BKN08SP020%&&***	20	2	~45	~12	270	3000	2	-40~+170
N08SP022%&&*** BKN08SP022%&&***	22	2	~45	~12	270	3000	2	-40~+170
N08SP033%&&*** BKN08SP033%&&***	33	2	~45	~12	270	3000	2	-40~+170

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NTD03- 011%&&*** BKNTD03- 011%&&***	11	3	~45	~12	240	2800	2.3	-40~+170
NTD03- 012%&&*** BKNTD03- 012%&&***	12	3	~45	~12	240	2800	2.3	-40~+170
NTD03- 013%&&*** BKNTD03- 013%&&***	13	3	~45	~12	240	2800	2.3	-40~+170
NTD03- 014%&&*** BKNTD03- 014%&&***	14	3	~45	~12	240	2800	2.3	-40~+170
NTD03- 015%&&*** BKNTD03- 015%&&***	15	3	~45	~12	240	2800	2.3	-40~+170
NTD02- 020%&&*** BKNTD02- 020%&&***	20	2	~45	~12	270	3000	2	-40~+170
NTD02- 022%&&*** BKNTD02- 022%&&***	22	2	~45	~12	270	3000	2	-40~+170
NTD02- 033%&&*** BKNTD02- 033%&&***	33	2	~45	~12	270	3000	2	-40~+170

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10Φ-NT Series:

Part Number	Zero Power Resistance	Maximum Steady State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Recommend Capacitance 340Vdc/240VAC	Beta Value (±10%)	Maximum Steady Power	Operating Temperature Range
(Model No.)	(Ω)	(A)	(s)	(mW/°C)	(μF)	(°K)	(W)	(°C)
NTE08-0R7%&&*** BK NTE08-0R7%&&***	0.7	8	~60	~17	330	2600	2.5	-40~+170
NTE05-001%&&*** BK NTE05-001%&&***	1	5	~60	~17	330	2600	2.5	-40~+170
NTE05-1R3%&&*** BK NTE05-1R3%&&***	1.3	5	~60	~17	330	2600	2.5	-40~+170
NTE05-1R5%&&*** BK NTE05-1R5%&&***	1.5	5	~60	~15	330	2600	2.5	-40~+170
NTE05-002%&&*** BK NTE05-002%&&***	2	5	~60	~12	330	2600	2.5	-40~+170
NTE05-2R5%&&*** BK NTE05-2R5%&&***	2.5	5	~60	~12	330	2600	2.5	-40~+170
NTE05-003%&&*** BK NTE05-003%&&***	3	5	~60	~12	330	2600	2.5	-40~+170
NTE04-004%&&*** BK NTE04-004%&&***	4	4	~60	~12	330	2600	2.5	-40~+170

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NTE03- 015%&&*** BK NTE03- 015%&&***	15	3	~60	~12	270	2800	2.5	-40~+170
NTE03- 016%&&*** BK NTE03- 016%&&***	16	3	~60	~12	270	2800	2.5	-40~+170
NTE03- 017%&&*** BK NTE03- 017%&&***	17	3	~60	~12	270	3000	2.5	-40~+170
NTE03- 018%&&*** BK NTE03- 018%&&***	18	3	~60	~12	270	3000	2.5	-40~+170
NTE03- 019%&&*** BK NTE03- 019%&&***	19	3	~60	~12	270	3000	2.5	-40~+170
NTE03- 020%&&*** BK NTE03- 020%&&***	20	3	~60	~12	270	3000	2.5	-40~+170
NTE03- 021%&&*** BK NTE03- 021%&&***	21	3	~60	~12	270	3000	2.5	-40~+170
NTE03- 022%&&*** BK NTE03- 022%&&***	22	3	~60	~12	270	3000	2.5	-40~+170
NTE03- 050%&&*** BK NTE03- 050%&&***	50	3	~60	~12	270	3500	2.5	-40~+170

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NTG07-003%&&*** BKNTG07-003%&&***	3	7	~85	~18	820	2600	3	-40~+200
NTG06-004%&&*** BKNTG06-004%&&***	4	6	~85	~18	820	2800	3	-40~+200
NTG06-005%&&*** BKNTG06-005%&&***	5	6	~85	~18	820	2800	3	-40~+200
NTG05-006%&&*** BKNTG05-006%&&***	6	5	~85	~18	820	2800	3	-40~+200
NTG06-006%&&*** BKNTG06-006%&&***	6	6	~85	~18	820	2800	3	-40~+200
NTG05-007%&&*** BKNTG05-007%&&***	7	5	~85	~18	820	3000	3	-40~+200
NTG06-007%&&*** BKNTG06-007%&&***	7	6	~85	~18	820	3000	3	-40~+200
NTG05-008%&&*** BKNTG05-008%&&***	8	5	~90	~15	820	3000	3	-40~+200
NTG05-009%&&*** BKNTG05-009%&&***	9	5	~90	~15	430	3000	3	-40~+200
NTG05-010%&&*** BKNTG05-010%&&***	10	5	~90	~15	820	3000	3	-40~+200
NTG04-011%&&*** BKNTG04-011%&&***	11	4	~90	~15	680	3200	3	-40~+200
NTG04-012%&&*** BKNTG04-012%&&***	12	4	~90	~15	680	3200	3	-40~+200
NTG04-013%&&*** BKNTG04-013%&&***	13	4	~90	~15	680	3200	3	-40~+200
NTG04-014%&&*** BKNTG04-014%&&***	14	4	~90	~15	680	3200	3	-40~+200
NTG04-015%&&*** BKNTG04-015%&&***	15	4	~90	~15	680	3200	3	-40~+200
NTG04-016%&&*** BKNTG04-016%&&***	16	4	~90	~15	680	3200	3	-40~+200
NTG04-017%&&*** BKNTG04-017%&&***	17	4	~90	~15	680	3200	3	-40~+200
NTG04-018%&&*** BKNTG04-018%&&***	18	4	~90	~15	680	3200	3	-40~+200
NTG04-019%&&*** BKNTG04-019%&&***	19	4	~90	~15	680	3200	3	-40~+200
NTG04-020%&&*** BKNTG04-020%&&***	20	4	~90	~15	680	3200	3	-40~+200

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NTG04-021%&&*** BKNTG04-021%&&***	21	4	-90	~15	680	3200	3	-40~+200
NTG04-022%&&*** BKNTG04-022%&&***	22	4	-90	~15	680	3200	3	-40~+200

15Φ-SP Series:

Part Number	Zero Power Resistance	Maximum Steady State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Recommend Capacitance 340Vdc/240VAC	Beta Value (±10%)	Maximum Steady Power	Operating Temperature Range
(Model No.)	(Ω)	(A)	(s)	(mW/°C)	(μF)	(°K)	(W)	(°C)
N15SP0R7%&&*** BKN15SP0R7%&&***	0.7	11	~105	~20	1000	2600	4	-40~+200
N15SP001%&&*** BKN15SP001%&&***	1	4.5	~105	~20	1000	2600	4	-40~+200
N15SP1R3%&&*** BKN15SP1R3%&&***	1.3	8	~105	~20	1000	2600	4	-40~+200
N15SP1R5%&&*** BKN15SP1R5%&&***	1.5	8	~105	~20	1000	2600	4	-40~+200
N15SP002%&&*** BKN15SP002%&&***	2	4.5	~105	~20	1000	2600	4	-40~+200
N15SP2R5%&&*** BKN15SP2R5%&&***	2.5	8	~105	~20	1000	2600	4	-40~+200
N15SP003%&&*** BKN15SP003%&&***	3	7	~105	~20	1000	2800	4	-40~+200
N15SP004%&&*** BKN15SP004%&&***	4	6	~105	~20	1000	2800	4	-40~+200
N15SP005%&&*** BKN15SP005%&&***	5	6	~105	~20	1000	3000	4	-40~+200
N15SP006%&&*** BKN15SP006%&&***	6	5	~105	~20	1000	3000	4	-40~+200
N15SP007%&&*** BKN15SP007%&&***	7	5	~100	~20	1000	3000	4	-40~+200
N15SP008%&&*** BKN15SP008%&&***	8	5	~100	~20	820	3000	4	-40~+200
N15SP009%&&*** BKN15SP009%&&***	9	3	~100	~20	820	3000	4	-40~+200
N15SP010%&&*** BKN15SP010%&&***	10	5	~100	~20	820	3200	4	-40~+200

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N15SP011%&&*** BKN15SP011%&&***	11	3	~100	~20	820	3200	4	-40~+200
N15SP012%&&*** BKN15SP012%&&***	12	4	~100	~20	820	3200	4	-40~+200
N15SP013%&&*** BKN15SP013%&&***	13	3	~100	~20	820	3200	4	-40~+200
N15SP014%&&*** BKN15SP014%&&***	14	3	~100	~20	820	3200	4	-40~+200
N15SP015%&&*** BKN15SP015%&&***	15	4	~100	~20	820	3200	4	-40~+200
N15SP016%&&*** BKN15SP016%&&***	16	4	~100	~20	820	3200	4	-40~+200
N15SP018%&&*** BKN15SP018%&&***	18	2.5	~100	~20	820	3200	4	-40~+200
N15SP020%&&*** BKN15SP020%&&***	20	4	~100	~20	820	3200	4	-40~+200
N15SP022%&&*** BKN15SP022%&&***	22	4	~100	~20	820	3200	4	-40~+200
N15SP025%&&*** BKN15SP025%&&***	25	3	~100	~20	820	3200	4	-40~+200
N15SP030%&&*** BKN15SP030%&&***	30	3	~100	~20	820	3200	4	-40~+200
N15SP033%&&*** BKN15SP033%&&***	33	3	~100	~20	820	3200	4	-40~+200
N15SP040%&&*** BKN15SP040%&&***	40	3	~100	~20	820	3200	4	-40~+200
N15SP047%&&*** BKN15SP047%&&***	47	3	~100	~20	820	3200	4	-40~+200
N15SP050%&&*** BKN15SP050%&&***	50	2	~100	~20	820	3400	4	-40~+200
N15SP055%&&*** BKN15SP055%&&***	55	3	~100	~20	820	3400	4	-40~+200
N15SP080%&&*** BKN15SP080%&&***	80	2.5	~100	~20	680	3400	4	-40~+200
N15SP120%&&*** BKN15SP120%&&***	120	2	~100	~20	680	3400	4	-40~+200

TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD
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15Φ-NT Series:

Part Number	Zero Power Resistance	Maximum Steady State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Recommend Capacitance 340Vdc/240VAC	Beta Value (±10%)	Maximum Steady Power	Operating Temperature Range
(Model No.)	(Ω)	(A)	(s)	(mW/°C)	(μF)	(°K)	(W)	(°C)
NTJ11-0R7%&&*** BKNTJ08-0R7%&&***	0.7	11	~105	~20	1000	2600	4	-40~+200
NTJ09-001%&&*** BKNTJ09-001%&&***	1	9	~105	~20	1000	2600	4	-40~+200
NTJ09-002%&&*** BKNTJ09-002%&&***	2	9	~105	~20	1000	2600	4	-40~+200
NTJ09-2R5%&&*** BKNTJ09-2R5%&&***	2.5	9	~105	~20	1000	2600	4	-40~+200
NTJ09-003%&&*** BKNTJ09-003%&&***	3	9	~105	~20	1000	2800	4	-40~+200
NTJ08-005%&&*** BKNTJ08-005%&&***	5	8	~105	~20	1000	3000	4	-40~+200
NTJ08-006%&&*** BKNTJ08-006%&&***	6	8	~105	~20	1000	3000	4	-40~+200
NTJ08-007%&&*** BKNTJ08-007%&&***	7	8	~100	~20	1000	3000	4	-40~+200

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NTJ06-008%&&*** BKNTJ06-008%&&***	8	6	~100	~20	820	3000	4	-40~+200
NTJ06-009%&&*** BKNTJ06-009%&&***	9	6	~100	~20	820	3000	4	-40~+200
NTJ06-010%&&*** BKNTJ06-010%&&***	10	6	~100	~20	820	3200	4	-40~+200
NTJ06-011%&&*** BKNTJ06-011%&&***	11	6	~100	~20	820	3200	4	-40~+200
NTJ06-012%&&*** BKNTJ06-012%&&***	12	6	~100	~20	820	3200	4	-40~+200
NTJ05-013%&&*** BKNTJ05-013%&&***	13	5	~100	~20	820	3200	4	-40~+200
NTJ06-013%&&*** BKNTJ06-013%&&***	13	6	~100	~20	820	3200	4	-40~+200
NTJ05-014%&&*** BKNTJ05-014%&&***	14	5	~100	~20	820	3200	4	-40~+200
NTJ06-014%&&*** BKNTJ06-014%&&***	14	6	~100	~20	820	3200	4	-40~+200
NTJ05-015%&&*** BKNTJ05-015%&&***	15	5	~100	~20	820	3200	4	-40~+200

TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD
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NTJ06- 015%&&*** BKNTJ06- 015%&&***	15	6	~100	~20	820	3200	4	-40~+200
NTJ05- 018%&&*** BKNTJ05- 018%&&***	18	5	~100	~20	820	3200	4	-40~+200
NTJ05- 020%&&*** BKNTJ05- 020%&&***	20	5	~100	~20	820	3200	4	-40~+200
NTJ05- 022%&&*** BKNTJ05- 022%&&***	22	5	~100	~20	820	3200	4	-40~+200
NTJ04- 025%&&*** BKNTJ04- 025%&&***	25	4	~100	~20	820	3200	4	-40~+200
NTJ04- 030%&&*** BKNTJ04- 030%&&***	30	4	~100	~20	820	3200	4	-40~+200
NTJ04- 033%&&*** BKNTJ04- 033%&&***	33	4	~100	~20	820	3200	4	-40~+200
NTJ04- 040%&&*** BKNTJ04- 040%&&***	40	4	~100	~20	820	3200	4	-40~+200
NTJ04- 047%&&*** BKNTJ04- 047%&&***	47	4	~100	~20	820	3200	4	-40~+200
NTJ04- 050%&&*** BKNTJ04- 050%&&***	50	4	~100	~20	820	3400	4	-40~+200

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NTJ04-055%&&***	55	4	~100	~20	820	3400	4	-40~+200
BKNTJ04-055%&&***								

20Φ-SP Series:

Part Number	Zero Power Resistance	Maximum Steady State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Recommend Capacitance 340Vdc/240VAC	Beta Value (±10%)	Maximum Steady Power	Operating Temperature Range
(Model No.)	(Ω)	(A)	(s)	(mW/°C)	(μF)	(°K)	(W)	(°C)
N20SP0R5%&&*** BKN20SP0R5%&&***	0.5	6	~160	~28	1200	2400	5	-40~+200
N20SP0R7%&&*** BKN20SP0R7%&&***	0.7	12	~160	~28	1200	2400	5	-40~+200
N20SP001%&&*** BKN20SP001%&&***	1	10	~140	~24	1200	2600	5	-40~+200
N20SP1R3%&&*** BKN20SP1R3%&&***	1.3	8	~140	~24	1200	2600	5	-40~+200
N20SP002%&&*** BKN20SP002%&&***	2	8	~140	~24	1200	2600	5	-40~+200
N20SP2R5%&&*** BKN20SP2R5%&&***	2.5	8	~140	~24	1200	2800	5	-40~+200
N20SP003%&&*** BKN20SP003%&&***	3	6	~140	~24	1200	2800	5	-40~+200
N20SP004%&&*** BKN20SP004%&&***	4	8	~140	~24	1200	2800	5	-40~+200
N20SP005%&&*** BKN20SP005%&&***	5	7	~140	~24	1200	3000	5	-40~+200
N20SP006%&&*** BKN20SP006%&&***	6	6	~140	~24	1200	3000	5	-40~+200
N20SP007%&&*** BKN20SP007%&&***	7	6	~130	~24	1200	3000	5	-40~+200
N20SP008%&&*** BKN20SP008%&&***	8	5	~130	~24	1200	3000	5	-40~+200
N20SP009%&&*** BKN20SP009%&&***	9	5	~130	~24	1200	3000	5	-40~+200
N20SP010%&&*** BKN20SP010%&&***	10	6	~130	~24	1200	3000	5	-40~+200
N20SP011%&&*** BKN20SP011%&&***	11	4	~130	~24	1200	3200	5	-40~+200

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N20SP012%&&&*** BKN20SP012%&&&***	12	5	~130	~24	1200	3200	5	-40~+200
N20SP013%&&&*** BKN20SP013%&&&***	13	4	~130	~24	1200	3200	5	-40~+200
N20SP014%&&&*** BKN20SP014%&&&***	14	4	~130	~24	1200	3200	5	-40~+200
N20SP015%&&&*** BKN20SP015%&&&***	15	4	~130	~24	1200	3200	5	-40~+200
N20SP016%&&&*** BKN20SP016%&&&***	16	6	~130	~24	1200	3200	5	-40~+200
N20SP017%&&&*** BKN20SP017%&&&***	17	4	~130	~24	1200	3200	5	-40~+200
N20SP018%&&&*** BKN20SP018%&&&***	18	4	~130	~24	1200	3200	5	-40~+200
N20SP019%&&&*** BKN20SP019%&&&***	19	4	~130	~24	1200	3200	5	-40~+200
N20SP020%&&&*** BKN20SP020%&&&***	20	6	~130	~24	1200	3200	5	-40~+200
N20SP025%&&&*** BKN20SP025%&&&***	25	6	~130	~24	1200	3200	5	-40~+200
N20SP120%&&&*** BKN20SP120%&&&***	120	2	~130	~24	1200	3200	5	-40~+200

20Φ-NT Series:

Part Number	Zero Power Resistance	Maximum Steady State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Recommend Capacitance 340Vdc/240VAC	Beta Value (±10%)	Maximum Steady Power	Operating Temperature Range
(Model No.)	(Ω)	(A)	(s)	(mW/°C)	(μF)	(°K)	(W)	(°C)
NTL12-0R5%&&&*** BKNTL12-0R5%&&&***	0.5	12	~160	~28	1200	2400	5	-40~+200
NTL12-0R7%&&&*** BKNTL12-0R7%&&&***	0.7	12	~160	~28	1200	2400	5	-40~+200
NTL12-001%&&&*** BKNTL12-001%&&&***	1	12	~160	~28	1200	2600	5	-40~+200
NTL12-002%&&&*** BKNTL12-002%&&&***	2	12	~140	~24	1200	2600	5	-40~+200
NTL10-2R5%&&&*** BKNTL10-2R5%&&&***	2.5	10	~140	~24	1200	2800	5	-40~+200

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NTL12-2R5%&&*** BKNTL12-2R5%&&***	2.5	12	~140	~24	1200	2800	5	-40~+200
NTL12-003%&&*** BKNTL12-003%&&***	3	12	~140	~24	1200	2800	5	-40~+200
NTL10-005%&&*** BKNTL10-005%&&***	5	10	~140	~24	1200	3000	5	-40~+200
NTL10-006%&&*** BKNTL10-006%&&***	6	10	~140	~24	1200	3000	5	-40~+200
NTL10-007%&&*** BKNTL10-007%&&***	7	10	~140	~24	1200	3000	5	-40~+200
NTL10-008%&&*** BKNTL10-008%&&***	8	10	~130	~24	1200	3000	5	-40~+200
NTL10-009%&&*** BKNTL10-009%&&***	9	10	~130	~24	1200	3000	5	-40~+200
NTL10-010%&&*** BKNTL10-010%&&***	10	10	~130	~24	1200	3000	5	-40~+200
NTL08-011%&&*** BKNTL08-011%&&***	11	8	~130	~24	1200	3200	5	-40~+200
NTL08-012%&&*** BKNTL08-012%&&***	12	8	~130	~24	1200	3200	5	-40~+200
NTL08-013%&&*** BKNTL08-013%&&***	13	8	~130	~24	1200	3200	5	-40~+200
NTL08-014%&&*** BKNTL08-014%&&***	14	8	~130	~24	1200	3200	5	-40~+200
NTL08-015%&&*** BKNTL08-015%&&***	15	8	~130	~24	1200	3200	5	-40~+200
NTL08-016%&&*** BKNTL08-016%&&***	16	8	~130	~24	1200	3200	5	-40~+200
NTL08-017%&&*** BKNTL08-017%&&***	17	8	~130	~24	1200	3200	5	-40~+200
NTL08-018%&&*** BKNTL08-018%&&***	18	8	~130	~24	1200	3200	5	-40~+200
NTL08-019%&&*** BKNTL08-019%&&***	19	8	~130	~24	1200	3200	5	-40~+200
NTL08-020%&&*** BKNTL08-020%&&***	20	8	~130	~24	1200	3200	5	-40~+200



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25Φ-SP Series:

Part Number	Zero Power Resistance	Maximum Steady State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Recommend Capacitance 340Vdc/240VAC	Beta Value (±10%)	Maximum Steady Power	Operating Temperature Range
(Model No.)	(Ω)	(A)	(s)	(mW/°C)	(μF)	(°K)	(W)	(°C)
N25SP0R7%&&*** BKN25SP0R7%&&***	0.7	22	~150	~30	1350	2600	6.5	-40~+200
N25SP001%&&*** BKN25SP001%&&***	1	15	~150	~30	1350	2600	6.5	-40~+200
N25SP1R5%&&*** BKN25SP1R5%&&***	1.5	15	~150	~30	1350	2600	6.5	-40~+200
N25SP002%&&*** BKN25SP002%&&***	2	15	~150	~30	1350	2600	6.5	-40~+200
N25SP2R5%&&*** BKN25SP2R5%&&***	2.5	15	~150	~30	1350	2800	6.5	-40~+200
N25SP003%&&*** BKN25SP003%&&***	3	15	~150	~30	1350	2800	6.5	-40~+200
N25SP004%&&*** BKN25SP004%&&***	4	14	~150	~30	1350	2800	6.5	-40~+200
N25SP4R7%&&*** BKN25SP4R7%&&***	4.7	13	~150	~30	1350	3000	6.5	-40~+200
N25SP005%&&*** BKN25SP005%&&***	5	12	~150	~30	1350	3000	6.5	-40~+200
N25SP6R8%&&*** BKN25SP6R8%&&***	6.8	10.5	~150	~30	1240	3000	6.5	-40~+200
N25SP007%&&*** BKN25SP007%&&***	7	10	~150	~30	1240	3000	6.5	-40~+200
N25SP008%&&*** BKN25SP008%&&***	8	9	~150	~30	1240	3200	6.5	-40~+200
N25SP010%&&*** BKN25SP010%&&***	10	8	~150	~30	1240	3200	6.5	-40~+200
N25SP012%&&*** BKN25SP012%&&***	12	7.5	~150	~30	1240	3200	6.5	-40~+200
N25SP015%&&*** BKN25SP015%&&***	15	6.5	~150	~30	1240	3200	6.5	-40~+200
N25SP018%&&*** BKN25SP018%&&***	18	5.5	~150	~30	1240	3200	6.5	-40~+200

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N25SP020%&&*** BKN25SP020%&&***	20	5	~150	~30	1240	3200	6.5	-40~+200
N25SP120%&&*** BKN25SP120%&&***	120	3	~150	~30	1000	3200	6.5	-40~+200

25Φ-NT Series:

Part Number	Zero Power Resistance	Maximum Steady State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Recommend Capacitance 340Vdc/240VAC	Beta Value (±10%)	Maximum Steady Power	Operating Temperature Range
(Model No.)	(Ω)	(A)	(s)	(mW/°C)	(μF)	(°K)	(W)	(°C)
NTM22-0R7%&&*** BKNTM22-0R7%&&***	0.7	22	~150	~30	1350	2600	6.5	-40~+200
NTM15-001%&&*** BKNTM15-001%&&***	1	15	~150	~30	1350	2600	6.5	-40~+200
NTM15-1R5%&&*** BKNTM15-1R5%&&***	1.5	15	~150	~30	1350	2600	6.5	-40~+200
NTM15-002%&&*** BKNML15-002%&&***	2	15	~150	~30	1350	2600	6.5	-40~+200
NTM15-2R5%&&*** BKNTM15-2R5%&&***	2.5	15	~150	~30	1350	2600	6.5	-40~+200
NTM15-003%&&*** BKNTM15-003%&&***	3	15	~150	~30	1350	2800	6.5	-40~+200
NTM14-004%&&*** BKNTM14-004%&&***	4	14	~150	~30	1350	2800	6.5	-40~+200

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NTM13- 4R7%&&*** BKNTM13- 4R7%&&***	4.7	13	~150	~30	1350	3000	6.5	-40~+200
NTM12- 005%&&*** BKNTM12- 005%&&***	5	12	~150	~30	1350	3000	6.5	-40~+200
NTM11- 6R8%&&*** BKNTM11- 6R8%&&***	6.8	10.5	~150	~30	1240	3000	6.5	-40~+200
NTM10- 072%&&*** BKNTM10- 007%&&***	7	10	~150	~30	1240	3000	6.5	-40~+200
NTM09- 008%&&*** BKNTM09- 008%&&***	8	9	~150	~30	1240	3200	6.5	-40~+200
NTM08- 010%&&*** BKNTM08- 010%&&***	10	8	~150	~30	1240	3200	6.5	-40~+200
NTM07- 012%&&*** BKNTM07- 012%&&***	12	7.5	~150	~30	1240	3200	6.5	-40~+200
NTM06- 015%&&*** BKNTM06- 015%&&***	15	6.5	~150	~30	1240	3200	6.5	-40~+200
NTM05- 018%&&*** BKNTM05- 018%&&***	18	5.5	~150	~30	1240	3200	6.5	-40~+200
NTM05- 020%&&*** BKNTM05- 020%&&***	20	5	~150	~30	1240	3200	6.5	-40~+200

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NTM03- 120%&&*** BKNTM03- 120%&&***	120	3	-150	-30	1000	3200	6.5	-40~+200
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03Φ-TDC Series:

Part Number	Zero Power Resistance at 25°C	Beta Value (±7%)	Maximum Permissible Current at 25°C	Thermal Dissipation Constant	Maximum Steady Power	Thermal Time Constant	Operating Temperature Range
(Model No.)	(Ω)	(°K)	(A)	(mW/°C)	(mW)	(s)	(°C)
TDC03A110%&&*** BKTD03A110%&&***	100	3000	25	5.5	200	10	-25~+125
TDC03A210%&&*** BKTD03A210%&&***	1,000	3300	25	5.5	200	10	-25~+125
TDC03C220%&&*** BKTD03C220%&&***	2,000	3700	20	5.5	200	10	-25~+125
TDC03C222%&&*** BKTD03C222%&&***	2,200	3700	20	5.5	200	10	-25~+125
TDC03C225%&&*** BKTD03C225%&&***	2,500	3700	20	5.5	200	10	-25~+125
TDC03C227%&&*** BKTD03C227%&&***	2,700	3700	20	5.5	200	10	-25~+125
TDC03C230%&&*** BKTD03C230%&&***	3,000	3700	18	5.5	200	10	-25~+125
TDC03C233%&&*** BKTD03C233%&&***	3,300	3700	18	5.5	200	10	-25~+125
TDC03C240%&&*** BKTD03C240%&&***	4,000	3700	15	5.5	200	10	-25~+125
TDC03C247%&&*** BKTD03C247%&&***	4,700	3750	15	5.5	200	10	-25~+125
TDC03C250%&&*** BKTD03C250%&&***	5,000	3750	15	5.5	200	10	-25~+125
TDC03C268%&&*** BKTD03C268%&&***	6,800	3800	10	5.5	200	10	-25~+125
TDC03C275%&&*** BKTD03C275%&&***	7,500	3800	10	5.5	200	10	-25~+125
TDC03C310%&&*** BKTD03C310%&&***	10,000	3900	10	5.5	200	10	-25~+125

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TDC03C312%&&*** BKTDC03C312%&&***	12,000	3900	10	5.5	200	10	-25~+125
TDC03C315%&&*** BKTDC03C315%&&***	15,000	3950	10	5.5	200	10	-25~+125
TDC03C320%&&*** BKTDC03C320%&&***	20,000	4000	10	5.5	200	10	-25~+125
TDC03C322%&&*** BKTDC03C322%&&***	22,000	4000	8	5.5	200	10	-25~+125
TDC03C330%&&*** BKTDC03C330%&&***	30,000	4150	7	5.5	200	10	-25~+125
TDC03C333%&&*** BKTDC03C333%&&***	33,000	4150	7	5.5	200	10	-25~+125
TDC03C347%&&*** BKTDC03C347%&&***	47,000	4150	5	5.5	200	10	-25~+125
TDC03C350%&&*** BKTDC03C350%&&***	50,000	4200	5	5.5	200	10	-25~+125
TDC03C368%&&*** BKTDC03C368%&&***	68,000	4300	5	5.5	200	10	-25~+125
TDC03D410%&&*** BKTDC03D410%&&***	100,000	4400	3	5.5	200	10	-25~+125
TDC03D422%&&*** BKTDC03D422%&&***	220,000	4550	2	5.5	200	10	-25~+125

05Φ-TDC Series:

Part Number	Zero Power Resistance at 25°C	Beta Value (±7%)	Maximum Permissible Current at 25°C	Thermal Dissipation Constant	Maximum Steady Power	Thermal Time Constant	Operating Temperature Range
(Model No.)	(Ω)	(°K)	(A)	(mW/°C)	(mW)	(s)	(°C)
TDC05A010%&&*** BKTDC05A010%&&***	10	2600	500	6	450	21	-25~+125
TDC05A015%&&*** BKTDC05A015%&&***	15	2900	250	6	450	18	-25~+125
TDC05A020%&&*** BKTDC05A020%&&***	20	2900	250	6	450	18	-25~+125
TDC05A040%&&*** BKTDC05A040%&&***	40	3000	250	6	450	19	-25~+125
TDC05A045%&&*** BKTDC05A045%&&***	45	3000	250	6	450	16	-25~+125

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