



Certification Record

CUSTOMER	CLASS	FILE
IDEC Corporation 6-64 Nishimiyahara 2-Chome, Yodogawa-Ku Osaka 532-0004 Japan	<u>3215-30</u> SUPPLEMENTARY PROTECTORS-COMPONENT ACCEPTANCE PROGRAM	083454_0_000
Refer to Class Description for program details		



THE FOLLOWING PROTECTORS HAVE BEEN EVALUATED TO CSA STANDARD C22.2 NO. 235-04:

- Supplementary protectors, Type NRC (with suffixes) 1- and 2-pole, manual reset, trip-free mechanism, magnetically operated series trip (overcurrent), 30A and less, 250V ac and less, 50/60Hz, 65V dc and less, I.R. (1-pole) 2500A ac and 200A dc, I.R. (2-pole) 1500A ac and 200A dc (2-pole), with and without auxiliary switch rated 3A, 250V ac max and 1A, 65V dc max.
- Supplementary protectors, Type NRW10 rated 0.25-8A, 10A, 12A and 15A, 250V ac, 50/60Hz, 32V dc.
- Supplementary protectors, Type NRK10 or NK1D-110, thermal trip, manual reset with no manual switching feature, open type, rated as follows:

Current Ratings at 250V ac, 50/60Hz and 65V dc	Interrupting Ratings at 250V ac, 50/60Hz and 65V dc
10A	100A
18A	180A
20A	200A

- Appliance component protectors, manual reset, magnetically operated, trip free mechanism.
- Type NRL, Models NRLT, NRLR, NRLY, NRLK, 20A and less, 250V ac, 50V dc, 125V ac, 15A lamp load, TV-10 (for Models NRLK2200F-15ABA and NRLK2100F-15ABA), 1- or 2-pole, Series Shunt or Relay Trip, with or without auxiliary switch, with or without inrush delay, with or without indicator light, IR250V ac - 1,000A, IR50V dc - 1,000A, with a series fuse of four times the interrupter rating but not less than 15A.
- Type NUS (with suffixes) and Type NR2 (with suffixes) plug-in bases for use with the submitter's Type NRA Series circuit protectors, rated 250V, 20A ac/dc max.
- Type NRF, single-pole, overcurrent type rated 0.3A to 15A, 250V ac/32V dc, may be provided with auxiliary contacts rated 0.05A, 125V ac.
- Supplementary Protectors, Overcurrent Type, Cat. No. NC1V, followed by -1, -2, or -3, followed by 1, followed by 00, 11, 21, 12, 13, 22, 23, 31, 32 or 33, may be followed by F, may be followed by -0.1A to -30A, may be followed by S, A or M. 250Vac max. 125Vdc max. 0.1 to 30A, 50/60Hz.
- Supplementary Protectors, Shunt Protector, Voltage type, Cat. No. NC1V, followed by -1, -2, or -3, followed by 5, followed by 00, followed by -DC24V. 250Vac max. 125Vdc max. 0.1 to 30A, 50/60 Hz. Coil voltage 24 to 48 Vdc.

Notes:

1. Suffix numbers and letters may be added to the type designation to denote type of mounting, number of poles, etc.
2. These circuit protectors and plug-in bases are Certified as components for use only in other Certified equipment where the suitability of the combination is determined by CSA International.
3. The circuit protectors with ac voltage ratings are suitable for use in circuits where they are protected by fuses rated not more than four times the full load current of the devices, except the minimum fuse may be 15A and the short circuit capacity does not exceed 1000A.
4. The rated coil voltage for Model No NRLR 1500 is 24V dc.
5. Open type protectors are Certified as components for use only in other Certified equipment where the suitability of the combination is to be determined by CSA International.
6. Models NRLK2200F-15ABA and NRLK2100F-15ABA have been endurance tested for 25,000 cycles of operation using tungsten filament lamp load (TV-10).
7. Type NRW10 protectors are suitable for use in circuits where they are protected by fuses rated not more than four times the full load current of the devices, and the short circuit capacity of the circuit in which they are connected does not exceed 10 times the rating of the protector.
8. Type NRF protectors are Certified for use only in equipment where the short circuit capacity of the circuit in which they are connected is limited to 6 times the rating of the protector for protectors rated 5A or less and 10 times the rating of the protector for protectors rated 5.1A to 15A.
9. Type NRF circuit protectors with auxiliary contacts when used in circuits rated 151V to 250V ac are Certified for use only in equipment where the short circuit capacity of the circuit in which they are connected is limited by fuses having ratings not exceeding those of the protector.

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