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File No: 040304 0 000

Class No: 3211 07 INDUSTRIAL CONTROL EQUIPMENT Miscellaneous Apparatus

SUBMITTOR

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FACTORY

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SEE ALSO SATELLITE FACTORY FILES 064026 0 000, 107821 0 000, 107822 0 000

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- Relays, Series 300, open type with dust cover, 1- or 2-pole, single or double throw contacts, max resistive ratings: 3A, 28V dc/120V ac for Types 311, 313, 321 and 323 without suffixes, or with suffix -Y, 5A, 28V dc/120V ac for Types 311, 313 with suffix K. Coil ratings 5 through 48V dc.
Relays, open type with dust cover, single-pole, single or double throw, Series 61 or 63, with or without Prefix "FBR", followed by C, E, NC or NE, followed by -D, followed by O01 through 048, followed by R, may or may not be followed by H or W, may or may not be followed by additional suffixes. Max contact ratings: 3A (res), 120V ac/28V dc, 3A, 120V ac, 1/10 hp, 120V ac; with Suffix "-H", 5A (res), 120V ac/28V dc, 4.4A, 120V ac, 1/6 hp, 120V ac; with Suffix "-W", 3A (res), 3A, 120V ac, 1/10 hp, 120V ac, 5A (res), 28V dc. Coil voltage 1 through 48V dc.
Relays, open type with dust cover, dpdt, Series 12 or 18 with suffixes, may be prefixed 'FBR', rated as follows:

Table with 5 columns: Suffix, Coils, 30 V dc, 110 V dc, 125 V ac. Rows include D or ND or WD and HD.



- Series RSP25H2C or RSP26H2C, followed by 03 through 24, with or without additional suffix alphanumeric code, having between one and three digits. Max contact rating: 0.5 A (res), 125 V ac, 2 A (res), 30 V dc, 0.3 A (res), 110 V dc, coil voltage 3 through 24 V dc.
- Relays, Series FBR101, spst contacts and Series FBR111, spdt contacts, open types with dust covers, max ratings: with or without Suffix "K": 3A (resistive), 120V ac, 28V dc; with Suffix "M": 1A (resistive), 120V ac, 28V dc, with Suffix "Q": 5A (resistive), 120V ac, 28V dc, 5A (tungsten), 120V ac; with Suffix "W": 10A (resistive), 3A (tungsten), TV-3, 120V ac, 8.5A (resistive), 120V ac, 28V dc. Coils (may be latching) 1 to 48V dc.
- Relays, Series FBR244, open type with dust cover, dpdt contacts rated: 0.5A, resistive, 120V ac (same polarity) and, 2A, 28V dc; inputs: 3 through 48V dc.
- Relay Series FBR161, FBR163, 161 and 163, open type with dust cover:
- Coil voltage 1 through 48V dc.
- Contact ratings:

	Contact Arrangement	Ratings (Max)
No marking	Spst or Spdt	3A (res), 120V ac/30V dc, 1.5A (ind), 30V dc, 1.5A (pf-0.4), 120V ac
-K	Spst or Spdt	3A (res), 120V ac/30V dc, 1.5A (ind), 30V dc, 1.5A (pf-0.4), 120V ac
-H	Spst or Spdt	5A (res), 120V ac/30V dc, 2.5A (ind), 30V dc, 2.5A (pf-0.4), 120V ac
-W	Spst or Dpst	5A (res), 120V ac/30V dc, 2.5A (ind), 30V dc, 2.5A (pf-0.4), 120V ac
-HB	Spst or Spdt	10A (res), 125/250V ac, 5A,(pf-0.4), 125V ac, 5A (ind), 30V dc With silver cadmium oxide clad copper contact, -10A (res), 30V dc
-WB	Spst or Spdt	10A (res), 125/250V ac, 5A, (pf-0.4), 125V ac, With indium silver tin oxide clad copper contact, -10A (res), 30V dc

- FBR80 relay series including Types FBR81, FBR83, (with suffixes), open types with dust cover, spst, spdt. Ratings per pole as follows: No suffix, suffix K and W - 3A (res), 120V ac; 3A (res), 30V dc; suffix Q - 3A (res) 120V ac; 5A (res) 30V dc. Coil voltage 5 through 24V dc.



- Relays, open type with dust cover, spdt, Type 211 series, with or without prefix "FBR", may or may not be followed by S or N, followed by A, B, C or E, followed by D, followed by 001 through 024, followed by U, followed by -P or -M, with or without additional suffix numbers, may or may not be followed by -B. Rated 0.5A (res) 120V ac, 2A, .28V dc, coil 1.5V through 24V dc.
- Relays open type with dust cover, DPDT,, Type 46, 46N, FBR46, FBR46N, 47, 47N, FBR47 and FBR47N followed by D or G, followed by 003 through 024, contact rated as follows:

Suffix	Contact		Ratings
	30 V dc	120 V ac	250 V ac
-	1 A (res)	0.5 A (res)	-
F	1 A (res)	0.5 A (res)	-
P	1 A (res)	0.5 A (res)	0.3 A

Coil rated 3 to 24V dc.

Notes:

1. Suffix letters and numbers are added to series designation to indicate type of construction, coil voltage and contact material.
2. These relays are Certified for use in equipment where the short circuit capacity of the circuit in which they are connected is limited by fuses having ratings not exceeding the rating of the relay.
3. Open type relays are Certified as components only for use in other Certified equipment where the suitability of the combination is determined by the Canadian Standards Association.
4. Suffix "X" added to Series FBR101 and FBR111 relays indicates Class B (130C) insulation.
5. Relays Series FBR111 rated 5A tungsten at 120V ac have been tested for 25,000 cycles of operation.
6. Relays, Series FBR244, when applied in circuits above 51V are Certified for use in equipment where the power is limited to 1500VA by a transformer, voltage divider or similar device (fuses or overload devices are excluded) and where a fire hazard will not result from a short circuit.