



CERTIFICATION RECORD

The company named below has been authorized by CSA to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 040304 0 000
 Class No: 3231 52 SWITCHES Component - Automatic - Industrial Control

SUBMITTOR

249658 Fujitsu Takamisawa Component Ltd.
 3-5, Higashigotanda, 2-Chome
 Shinagawa-Ku
 Tokyo, 141-8630
 JAPAN

FACTORY

242521 Fujitsu Takamisawa Component Ltd.
 Engineering & Development Center
 1174 Oaza-Suzaka
 Suzaka-Shi
 Nagano-Ken, 382
 JAPAN

SEE ALSO SATELLITE FACTORY FILES 107821 0 000, 107822 0 000, 111078 0 000

September 30, 1999(Replaces:September 16, 1999)

- Relays, open type with dust cover, Types FTR-F1 or F1 with suffixes, rated as follows:

| Suffix | Contact | Coils | 24 V dc | 125 V ac | 250 V ac | Pilot Duty | TV |
|--------|---------|---------------------------|---------|----------|---------------------------------------|-----------------|------|
| AA(J)V | dpst | 5 to 110 V dc (0.53 W) | 5 A* | 1/6 hp+ | 5 A res*, 1/4 hp+ | R300+, C300+ | - |
| CA(J)V | dpdt | 5 to 110 V dc (0.53 W) | 5 A* | 1/6 hp+ | NO: 5A res, NC: 5A res, 1/4 hp+ | R300+, C300+ | - |
| AA(J)T | dpst | 5 to 110 V dc (0.53 W) | 5 A* | 1/6 hp+ | 5 A res*, 1/4 hp+ | R300+, C300+ | TV-3 |
| AD(J)V | dpst | 5 to 48 V dc (0.4 W) | 5 A | 1/6 hp | 5 A res, 1/4 hp | R300, C300 | - |
| CD(J)V | dpdt | 5 to 48 V dc (0.4 W) | 5 A | 1/6 hp | 5 A res, 1/4 hp | R300, C300 | - |



Where ()=005 through 048 or 110: Coils 5 through 48 V dc or 110 V dc.

- Relays, open type with dust cover, types FTR-H1 or H1 with suffixes, rated as follows:

| Suffix | Contact | Coils | 30 V dc | 125 V ac | 250 V ac | Pilot Duty | TV |
|---------------------|-----------------|---------------------------|---------|----------|-----------------------|-----------------|------|
| AA() V, CA() V | spst or spdt | 5 to 110 V dc (0.53 W) | 10 A+ | 1/3 hp+ | 10 A res*, 1/2 hp+ | B300+, Q300+ | - |
| AA()T | spst | 5 to 110 V dc (0.53 W) | 10A* | 1/3 hp+ | 10 a res*, 1/2 hp+ | B300+, Q300+ | TV-5 |
| AD() V, CD() V | spst or spdt | 5 to 48 V dc (0.4 W) | 10 A | 1/3 hp | 10 A res, 1/2 hp | B300, Q300 | - |

Where ()=005 through 048 or 110: coils 5 through 48 V dc or 110 V dc.

- Relays, open type with dust cover, spst, Types FTR-F2A or F2A with suffixes, rated as follows:

| Suffix | Coils | 30 V dc | 125 V ac | 250 V ac | Pilot Duty | TV |
|--------|--------------------------|---------|----------|--------------------|------------|------|
| K | 5 to 48 V dc (0.53 W) | 5 A | 1/6 hp | 5 A res, 1/2 hp | C300 | TV-5 |
| L | 5 to 24 V dc (0.25 W) | 5 A | 1/6 hp | 5 A res, 1/2 hp | C300 | TV-5 |

- Relays, open type with dust cover, spst, types FTR-H2A or H2A with suffixes, rated as follows:

| Suffix | Coils | 30 V dc | 120 V ac | 125 V ac | 250 V ac | Pilot Duty | TV |
|--------|-------------------------|---------|-----------|----------|---------------------|------------|------|
| K | 5 to 48 Vdc (0.53 W) | 10 A | 15 A res* | 1/6 hp | 10 A res, 1/2 hp | C300 | TV-5 |
| L | 5 to 24 Vdc (0.25 W) | 10 A | - | 1/6 hp | 10 A res, 1/2 hp | C300 | TV-5 |



- Relays, open type with dust cover, spst, Types FTR-F3 or F3 with suffixes, rated as follows:

| Suffix | 30 V dc | 277 V ac | 125 V ac | 277 V ac | Pilot Duty |
|--------|----------|---------------------|----------|----------|------------|
| AAQL | 3 A | 3 A res. | 1/10 hp | 1/8 hp | D300 |
| AAQE | 3 A, 5 A | 3 A res, 5 A res | 1/10 hp | 1/8 hp | D300 |

Where ()=005 through 024. Coils 5 through 24 V dc.

- Relays, open type with dust cover, spst, Types FTR-F6AA or F6AA with suffixes, rated 3 A, 30 V dc/277 V ac Res; 1/10 hp, 125 V ac; 1/8 hp, 277 V ac; D300 pilot duty; coils 4.5 to 24 V dc.
- Relays, open type with dust cover, dpst, Types FTR-F4AK or F4AK with suffixes, rated 5 A, 30 V dc/277 V ac Res; 1/6 hp, 125 V ac; 1/4 hp, 277 V ac; TV-3; C300 pilot duty; coils 5 to 48 V dc.
- Relays, open type with dust cover, spst, Types FTR-K2AK or K2AK with suffixes, rated 16 A, 30 V dc/125 V ac Res.; 10 A, 277 V ac Res.; 1/3 hp, 125 V ac; 1 hp, 277 V ac; TV-5; C300 pilot duty; coils 5 to 48 V dc,

Notes:

- These relays have been examined for use as components in industrial control equipment where the suitability of the combination is subject to further investigation by the Canadian Standards Association.
- These relays do not meet the "Markings" requirement of CSA Std. C22.2 No 14-95.
- Letters NO, NC indicate normally open, normally closed contacts, and characters *, ++, + indicate relay with electrical ratings tested for 100,000, 50,000, 30,000 operations respectively.