



Certification Record

CUSTOMER	CLASS	FILE
Saia-Burgess Gateshead Limited Dukesway, Team Valley Trading Estate, Gateshead Tyne & Wear NE11 0UB United Kingdom	<u>6241-10</u> SWITCHES-Snap - Special Use	011488-0-000
	Refer to Class Description for program details	

Single pole or double pole, single or double throw microswitches:

- Cat Nos 3BR, 4BR, 5751, 5752, 4CR, CR7, P3; 1/8 hp, 125V ac, 1/4 hp, 250V ac, 10A, 125V ac, 5A, 250V ac.
- Cat Nos CR1, CY, CT1; 1/8 hp, 125V ac, 1/4 hp, 250V ac, 15A, 125, 250V ac.
- Cat Nos C6R06; 10A, 250V ac.
- Cat Nos CR2, CT2, CT7, 6CTQ, 7CTQ, CX, CXQ, CXS, 7CXQ, 9CTQ, CTH, CR2M, CRMN, CRMNA, CRMN2; 1/8 hp, 125V ac, 1/4 hp, 250V ac, 0.5A, 125V dc, 0.25A, 250V dc, 15A, 125, 250V ac.
- Miniature type, Cat Nos V37, VCF7, VCFJ7, VCSP7; 5A, 250V ac.
- Miniature type, Cat Nos V372, VCF72, VCFJ72, VCSP72; 2A, 250V ac.
- Cat Nos VBF/1633, VBSP/1633; 10.1A, 250V ac.
- Sub-miniature type, Cat Nos V4T1, V4T2, V4T3, V4T4, V4T5, V4T6, V4T7, V4T8, V4T9, V4T10, V3S, V3S8, V3S9, V3S10; 5A, 250V ac.
- Sub-miniature type, Cat Nos V4S; 3A, 250V ac.
- Ultra-miniature type, Cat Nos F12T8; 2A, 250V ac.
- Sub-miniature type, Cat Nos V42T6, V42T7, V42T8, V42T9; 2A, 250V ac.
- Ultra-miniature type, Cat Nos F1T8; 5A, 250V ac.
- Types VBF/1340; VBFY/1338; VBFY1/1340; VBF/1323, VCF/1339; 15A, 250V ac, 1/3HP, 250V ac.
- Type V3 series, single or double pole, single or double throw, switches:

Standard spring force		10A, 250Vac, 1/3hp, 125Vac
Low spring force	Suffix 2	10A, 125V ac, 5A, 250V ac
Low spring force, small contact gap	Suffix 4	5A, 250V ac
High spring force	Suffix 9	15A, 250V ac, 1/3hp, 125V ac, 250V ac

- Type VBF9/1633; 15A, 250V ac.
- Cat Nos WR22; 15A, 250V ac, for resistive heater loads only.
- Cat Nos V13, V13H; 10A, 250V ac.
- Cat Nos M1, M11, M12; 5A, 250V ac.
- Cat Nos M2; 10A, 250V ac.
- Cat Nos K5, K5C/2086, K5K/2087; 16A, 250V ac, 3/4 hp, 250V ac.
- Cat Nos K51, K52C; 16A, 250V ac, 3/4 hp, 250V ac.
- Cat Nos KB5 Series; 20A, 250V ac, 1 hp, 125V ac, 2 hp, 150V ac.
- Cat Nos V11S, V11FJ; 3A, 250V ac.
- Cat Nos V112S, V112FJ; 2A, 250V ac.
- Ultra-miniature types, Cat Nos F4T6, F4T7, F5T8; 5A, 250V ac.
- Sub-miniature types, Cat nos FK4T6, FK4T7, FK4T8, 5A, 250V ac.
- Shunt limit types, Cat Nos L3, L6 Series; general purpose, oil-tight enclosure, two circuits of same polarity, single pole, double break; 7A, 250V ac.
- Positive action type BVM Series, Cat Nos BVMF, BVMFJ, BVMSJ, BVMSI, BVM3, BVM-A2, 10A, 250V ac, 1/2 hp, 125, 250V ac.
- Single throw types, Cat Nos V12, V121, V122; 15A, 250V ac, 1/4 hp, 125V ac, 1/3 hp, 250V ac.

- Interlock switch, Cat Nos S310, S315, SM360; 25A, 2 hp, 250V ac, 1 hp, 125V ac.
- Illuminated push button actuated types, twin switches for same polarity use, Cat Nos H50 Series. The Cat No is in the form of H5 followed by 5 digits; 5A, 250V ac, with two extra-low potential indicator lamps 2.24W max total.
- Push button actuated, twin switch for same polarity. Cat No V24T7; 5A, 250V ac.
- Enclosed switches Cat Nos CL3161, ML3161, BL3161, GL3161; 16A, 125/250V ac, 2 hp, 250V ac, 1 hp, 125V ac.
- Thermostat Type E, Cat No Therm CR1.
- Actuators Type CA, CB, VL1, VLR1, M1A1, M2A1, M2AR1.
- Double break interlock switch; Cat Nos S310, S315, SM360; 25A, 250V ac, 2 hp, 250V ac, 1 hp, 125V ac.
- V4N/V4NS Series subminiature type, rating 5A, 250V ac (V4N2 rating 2A, 250V ac).
- Key operated switches Type TOK 'P2' and 'K2' series 2A 250V ac, 4A 125V ac, 10A 12V dc; Type TOK 'P5' Series, 5A 250V ac, 10A 125V ac, 15A 24V dc.
- Ultra-miniature microswitches, open type, SPDT, Types F1N and F1NS, 1A, 250V ac.
- Type V4D and V4DS series, single pole, single or double throw, snap action switches, 5A, 250V ac.
- Cat No M2V3HM6S, 2V3HM6SA, 2V3HM6SR, 2V3HM6SRA, with prefixes C,D,G,M; 2V3Q1T, 2V3CM-LH, 2V3CMS-RH, 2V3CMSNA-LH, 2V3CMSNA-RH, 2V3H6SF rated 10A, 250V ac.

Special Use Switches - XF

- Open type, single-pole, single or double throw. 15A, 480V ac and/or 15A, 250V ac and/or 1/2hp, 125/250V ac and/or 0.15A, 250V dc and/or 0.3A, 125V dc.
- XF7, 15A, 250V ac and/or 1/2hp, 125/250V ac and and/or 0.15A, 250V dc and/or 0.3A, 125V dc.
- XFA., 15A, 480V ac and/or 1/2hp, 125/250V ac and/or 15A, 250V ac and/or 0.1A, 125V dc.
- XB., XFC..., 10A, 480V ac and/or 1/16hp, 125/250V ac and/or 1/3hp, 250V ac and/or 1/4hp, 125V ac and/or 10A, 250V dc and/or 6A, 250V ac and/or 0.1A, 125V dc.
- XFD., 10A, 250V ac and/or 1/4hp, 125 ac and/or 1/3hp, 250V ac.
- XFK., 10A, 480V ac and/or 10A, 250V ac and/or 6A, 250V ac and/or 1/6hp, 125/250V ac and/or 1/3hp.
- 250V ac and/or 1/4hp, 125V and/or 0.15A, 250V dc and/or 0.3A, 125V dc.

Miltac-XO

- XO.4, 15A, 480V ac and/or 0.3A, 125V dc and/or 0.15A, 250V ac, 2hp, 250V ac.
- XOH.1, -2, -3, -6, 10A, 250V ac and/or 1/4hp. 125/250V ac and/or 6A, 12V dc.

Special Use Switches - XT

- XTD62, XTD62A, XTD60A, XTD20A rated 10.1A, 125/250V ac and 0.5A, 30V dc maybe rated 100,000 cycles of endurance.
- XTD22A, dpst, 15.5A, 125/250V ac, 0.5A, 30V dc, 1-1/2 hp, 250V ac, 1/2hp, 125V ac.
- XTD66A, dpst, 14A, 125/250V ac, 0.5A, 30V dc, 1-1/2, 250V ac, 1/2hp, 125V ac, rated up to 100,000 cycles endurance.

Special Use Switches - XS

- Type XSK..XSC, 15A, 125/250V ac and/or 12A, 125/250V ac and/or 1-1/2hp, 250V ac and/or 1/2hp, 125V ac, aux. Contact 0.3Am, 30V dc.

Special Use Switches - XP

- Type XP Series, 16A, 250V ac, 1/4 hp, 125/250V ac.

Single pole, double throw.

Cat No	Electrical Rating	Temp (°C)	PP	POL/THR	Endurance
	15A, 125V/250Vac				

PN4	1/8 hp, 125V ac, 1/4 hp, 250Vac 15A, 125V/250Vac	85	PP	SPDT	6,000
PN4D2	1/8 hp, 125V ac, 1/4 hp, 250Vac 15A, 125V/250Vac	85	PP	SPDT	6,000
PN4-1	1/8 hp, 125V ac, 1/4 hp, 250Vac	85	PP	SPDT	6,000

Maybe preceded and followed addition suffixes.

PP - Stand for Per Pole, PP indicate each pole is capable of switching the rated current.

- Single pole, double throw.

Cat No	Electrical Rating	Temperature (C)	PP	POL/THR	Endurance
V9N	10A, 250V ac	50	PP	SPDT	6,000
V9B	10A, 250V ac	50	PP	SPDT	6,000

Notes:

1. These switches are for sale only to manufacturers of electrical equipment where the combination is determined by CSA International.
2. The type designation may be prefixed or suffixed by letters or numerals denoting variations in external actuators, terminations, contact separation, pole arrangements, mounting method, conduit thread form and design of base.
3. Additional rating of 2A, 600V ac is indicated by suffix -/2253.
4. Suffix GP signifies gold plated contacts.
5. Additional rating of 30mA, 15V dc is indicated by suffix -/2520.
6. Rating of 0.3A, 30V dc, 0.5A, 250V ac, is indicated by suffix -/2459.
7. Single throw N/C F4 types are indicated by suffix -/2689. Rating 3A, 250V ac.
8. Cat Nos CT2 and VCFJ are Certified for use in 80C ambient.
9. The base designation 'P2' or 'K2' is supplemented by suffix letters and numerals denoting variations in number of decks, poles per deck, number of contacts per deck, switching combinations, hardware, key entries, lock requirements etc. The suffix G signifies gold plated contacts.

- Low profile, 'L.P.' Series sub-miniature micro switches, 3A max, 250V ac.

Note: Suffix letters and numbers are added to the basic designation to indicate operating force/rating, number of poles, actuator style and special features.

- Single pole, double throw.

Cat No	Electrical Rating	Temperature	Pole/Throw	No. of Endurance
G3M1	7A, 250V ac	65°C	1/2	6,000 operations
G3M2	10.1A, 250V ac	65°C	1/2	6,000 operations
G3M3	15A, 250V ac	65°C	1/2	6,000 operations
G3M4	18A, 250V ac	65°C	1/2	6,000 operations
G3M2AU	10.1A, 250V ac	65°C	1/2	6,000 operations
G3M4AU	10.1A, 250V ac 1/3 Hp, 250V ac 1/6 Hp, 125V ac	65°C	1/2	6,000 operations
G3G3	10.1A, 250V ac	65°C	1/2	6,000 operations

G3G4	10.1A, 250V ac	65°C	1/2	6,000 operations
G3M400/3310	16A, 250V ac	65°C	1/2	6,000 operations

- Special use switches, open type, Cat Nos TPS1 and TPS2 with suffixes, ratings as follows:

Cat No	Configuration	Ratings	No. of Operations
TPS1-UL	SP-NC	15A, 250V ac, 1/4 Hp, 125V ac, 1/3 Hp, 250V ac	6,000
TPS1-ULS	SP-NC	15A, 250V ac, 1/4 Hp, 125V ac, 1/3 Hp, 250V ac	100,000
TPS2-UL	SP-NO	15A, 250V ac, 1/4 Hp, 125V ac, 1/3 Hp, 250V ac	6,000
TPS2-ULS	SP-NO	15A, 250V ac, 1/4 Hp, 125V ac, 1/3 Hp, 250V ac	100,000

Notes:

1. The switch terminals have been investigated for use only with copper wire or copper alloy quick connect terminals.
2. A standard size quick connect tab per CSA Standard C22.2 No. 55 is to be mated with the appropriate standard size quick connect connector. The tab is provided with a detent that shall be properly matched to the connector.
3. The spacing between any terminal and a flat mounting surface has been judge in accordance with the CSA Standard C22.2 No. 55. However the spacing requirements between the connection when installed on the terminal and the mounting surface shall comply with the end use Standard spacing.
4. Switches with integral leads, the temperature rating of the leads is 65°C minimum unless the leads are surface marked with a higher rating.
5. These switches employ Rasts 5 terminal and Rast 2.5 terminals which must be evaluated for compliance with the end use product.
6. These devices are supplied only to manufacturers, as components, for assembly of Certified electrical equipment where the suitability of the combination is determined by CSA International.

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