

T Rotary Cam switch and
P Switch-disconnector
Short overview

Safe switching isolating and control



EATON

Powering Business Worldwide



We make what matters work.*



At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

To learn more go to: Eaton.com/whatmatters



Powering Business Worldwide

We make what matters work.

Built it in.



Safe switching, isolating and control with T Rotary Cam Switches and P Switch-disconnectors

The high-performance, robust and compact T Rotary Cam Switches and P Switch-disconnectors are used in machine building, industrial and engineering applications. They provide ultimate safe disconnection and endurance with positive mechanical contact breaking and excellent making & breaking capabilities. Their IP65 degree of protection enables use in harsh environments, and with essential global approvals the T & P range is a perfect switching, isolating and control solution.



The range is available in three basic mounting styles:

- Panel mounting – the switch & handle is fitted on the panel wall or door.
- Rear mounting – fitted at the rear of the panel on DIN rail or by baseplate, with the handle assembly on the door. Suitable for up to 400mm cabinet depth with metal extension shaft.
- Enclosed – mounted in compact, robust polycarbonate enclosures. Available with built-in grounding plate to improve EMC compliance.

P & T switches are available in an extensive range of complete pre-built switch/handle and enclosure combinations ex-stock to suit the specific requirements of our customers. This saves valuable time in the customer's assembly process as well as reducing packaging waste and order administration.

T rotary cam switches are suitable for a wide range of industrial and machine control applications: change-over and step switches, star-delta and reversing switches, etc. Several thousand switching types are available as standard, and customised circuits can also be produced to meet specific customers' needs



T Rotary Cam Switch

The T rotary switch represents a very flexible, compact and robust modular system. The TM, T0, T3, T5B, T5, T6, T8 rating sizes offer power ratings up to 132 kW, AC-23 A at 400/415 V, 50-60 Hz.

The rated uninterrupted current I_u ranges from 10 A to 315 A. The high making and breaking capacities and outstanding endurance capabilities makes the T rotary switch suitable for a wide range of switching applications. Customized circuits can also be produced to meet specific customer requirements.



P Switch-disconnector

The P Switch-disconnectors are available as P1 up to 32 A, P3 up to 100 A, and P5 up to 315 A. These compact and robust manually operated switches provide ultimate safe disconnection with positive mechanical contact breaking and excellent making & breaking capabilities at AC-23A. The P Switch-disconnectors are available with or without the Emergency-Stop function, and are a perfect option for Machine Isolation, Maintenance and Safety switches. Switchable 4th pole, and auxiliary contacts can be mounted on the left or right side.



Safety switch with load shedding and signalling

The P & T safety switches P and T are designed as maintenance and manual override switches and safe isolation of the load from the mains power is the primary function. They have clear position indication and are padlockable in the OFF position ensuring safe lock-out during equipment maintenance and repair and ensures the safety of personnel. The enclosures provide ample space for cabling and come with an earth terminal as standard. The switches can also be ordered with 1 normally open / 1 normally closed auxiliary with early break.

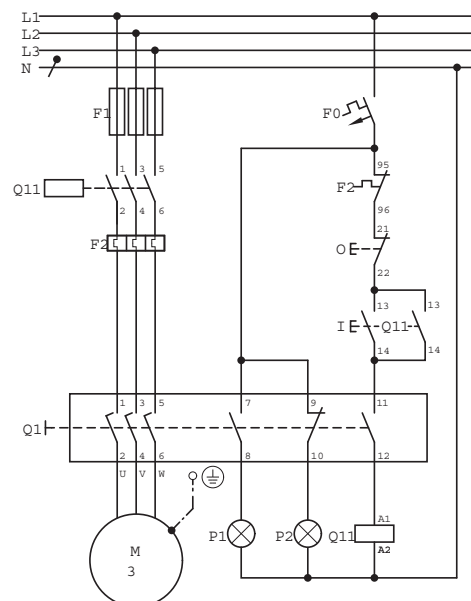
Main switch with Emergency-stop function¹⁾

Process and processing machines require a power disconnecting device conforming to EN 60204-1, emergency stop in an emergency must also be assured. As shown in the textile processing machine, both of these functions are assumed as a P Switch-disconnector.

Emergency stop functions requires:

- Priority function and operation in all operating modes
- The power supply, which could be the source of the danger, must be switched off as quickly as possible

1) The EMERGENCY-STOP devices from Eaton can also be used as EMERGENCY-OFF devices.



P1 = On
P2 = Off
Q11 = Load shedding

Cam switches, switch-disconnectors

Main switch, maintenance switch, Repair switch

Main circuits Poles	Auxiliary circuits	Rated unin- terrupted current	I_N A	 Surface mounting		 Flush mounting		 Rear mounting		 Rear mounting With metal shaft for a control panel depth of 400 mm	
				IP65		Front IP65		Front IP65		Front IP65	
				Part no.	Article no.	Part no.	Article no.	Part no.	Article no.	Part no.	Article no.
1	-	-	20	T0-1-8200/I1/SVB	207145	T0-1-8200/EA/SVB	053110	T0-1-8200/V/SVB	057856	-	
			32	T3-1-8200/I2/SVB	207200	T3-1-8200/EA/SVB	066576	T3-1-8200/V/SVB	007255	-	
			63	T5B-1-8200/I4/SVB	207240	T5B-1-8200/EA/SVB	094279	T5B-1-8200/V/SVB	094273	-	
			100	-	-	T5-1-8200/EA/SVB	097224	T5-1-8200/V/SVB	097222	-	
2	-	-	20	T0-1-102/I1/SVB	207143	T0-1-102/EA/SVB	091078	T0-1-102/V/SVB	095824	-	
			32	T3-1-102/I2/SVB	207198	T3-1-102/EA/SVB	014374	T3-1-102/V/SVB	019120	-	
			63	T5B-1-102/I4/SVB	207238	T5B-1-102/EA/SVB	094469	T5B-1-102/V/SVB	094463	-	
			100	T5-1-102/I5/SVB	207273	T5-1-102/EA/SVB	098808	T5-1-102/V/SVB	098806	-	
3	-	-	20	T0-2-1/I1/SVB	207147	T0-2-1/EA/SVB	038873	T0-2-1/V/SVB	043619	-	
			25	P1-25/I2/SVB	207293	P1-25/EA/SVB	041097	P1-25/V/SVB	055335	P1-25/M4/SVB	172875
			32	P1-32/I2/SVB	207314	P1-32/EA/SVB	081438	P1-32/V/SVB	095676	P1-32/M4/SVB	172865
			63	P3-63/I4/SVB	207343	P3-63/EA/SVB	031607	P3-63/V/SVB	048218	P3-63/M4/SVB	172784
			100	P3-100/I5/SVB	207373	P3-100/EA/SVB	074320	P3-100/V/SVB	088558	P3-100/M4/SVB	172818
			125	DMM-125/3/I5/P-R	172851	P5-125/EA/SVB	280898	P5-125/V/SVB	280914	DMM-125/3/M4/P-R	6094964
			160	DMM-160/3/I5/P-R	172794	P5-160/EA/SVB	280922	P5-160/V/SVB	280928	DMM-160/3/M4/P-R	6094965
			250	-	-	P5-250/EA/SVB	280936	P5-250/V/SVB	280942	DMV-250/3/M4/P-R	6094966
			315	-	-	P5-315/EA/SVB	280950	P5-315/V/SVB	280956	-	
			400	-	-	-	-	-	-	DMV-400/3/M4/P-R	6094967
3 + N	-	-	20	T0-2-8900/I1/SVB	207151	-	-	-	-	-	
			25	P1-25/I2/SVB/N	207298	P1-25/EA/SVB/N	081587	P1-25/V/SVB/N	086333	P1-25/M4/SVB/N	172877
			32	P1-32/I2/SVB/N	207319	P1-32/EA/SVB/N	091079	P1-32/V/SVB/N	095825	P1-32/M4/SVB/N	172867
			63	P3-63/I4/SVB/N	207349	P3-63/EA/SVB/N	010398	P3-63/V/SVB/N	015144	P3-63/M4/K2-PR/N	172812
			100	P3-100/I5/SVB/N	207379	P3-100/EA/SVB/N	019890	P3-100/V/SVB/N	024636	P3-100/M4/K2-PR/N	172828
			125	DMM-125/4/I5/P-R	172854	P5-125/EA/SVB/N	280910	P5-125/V/SVB/N	280916	DMM-125/4/M4/P-R	6094968
			160	DMM-160/4/I5/P-R	172797	P5-160/EA/SVB/N	280924	P5-160/V/SVB/N	280930	DMM-160/4/M4/P-R	6094969
			250	-	-	P5-250/EA/SVB/N	280938	P5-250/V/SVB/N	280944	DMV-250/4/M4/P-R	6094970
3	1	0	20	T0-2-15679/I1/SVB	207149	T0-2-15679/EA/SVB	081588	T0-2-15679/V/SVB	086334	-	
			25	P1-25/I2/SVB/HI11	207297	P1-25/EA/SVB/HI11	091080	P1-25/V/SVB/HI11	095826	P1-25/M4/SVB/HI11	172767
			32	P1-32/I2/SVB/HI11	207318	P1-32/EA/SVB/HI11	072567	P1-32/V/SVB/HI11	015145	P1-32/M4/SVB/HI11	172869
			63	P3-63/I4/SVB/HI11	207348	P3-63/EA/SVB/HI11	019891	P3-63/V/SVB/HI11	024637	P3-63/M4/SVB/HI11	172788
3 + N	1	1	100	P3-100/I5/SVB/HI11	207378	P3-100/EA/SVB/HI11	029383	P3-100/V/SVB/HI11	034129	P3-100/M4/SVB/HI11	172822
			20	T0-3-15680/I1/SVB	207153	T0-3-15680/EA/SVB	038875	T0-3-15680/V/SVB	043621	-	
			25	-	-	P1-25/EA/SVB/N/HI11	048367	P1-25/V/SVB/N/HI11	053113	P1-25/M4/SVB/N/HI11	172769
			32	T3-3-15680/I2/SVB	207202	P1-32/EA/SVB/N/HI11	057859	P1-32/V/SVB/N/HI11	062605	P1-32/M4/SVB/N/HI11	172871
3	2	1	63	P3-63/I4/SVB/N/HI11	207350	P3-63/EA/SVB/N/HI11	067351	P3-63/V/SVB/N/HI11	072097	P3-63/M4/K2-PR/N/HI11	172816
			100	P3-100/I5/SVB/N/HI11	207380	P3-100/EA/SVB/N/HI11	076843	P3-100/V/SVB/N/HI11	081589	P3-100/M4/K2-PR/N/HI11	172832
			20	T0-3-15683/I1/SVB	207157	T0-3-15683/EA/SVB	015571	T0-3-15683/V/SVB	015634	-	
			6	T0-3-8342/I1/SVB	207159	T0-3-8342/EA/SVB	029382	T0-3-8342/V/SVB	034128	-	
6	-	-	32	T3-3-8342/I2/SVB	207208	T3-3-8342/EA/SVB	071326	T3-3-8342/V/SVB	076072	-	
			63	T5B-3-8342/I4/SVB	207242	T5B-3-8342/EA/SVB	092308	T5B-3-8342/V/SVB	092300	-	
			100	T5-3-8342/I5/SVB	207279	T5-3-8342/EA/SVB	096383	T5-3-8342/V/SVB	096381	-	
			Molded case switch (UL/CSA) as main switch in accordance with NFPA 79								
3	-	-	30	-	-	P3-30/EA/SVB-MCS	237892	P3-30/V/SVB-MCS	237894	-	
				-	-	P3-30/EA/SVB-SW-MCS ¹⁾	237893	P3-30/V/SVB-SW-MCS	237895	-	

Notes

¹⁾ With black handle

Also available with black locking handle and thumbgrip knob



Cam switches, switch-disconnectors

On-Off switch, Changeoverswitches, Reversing switches

Front plate no.	Main circuits Poles	N/O	N/C					
				Flush mounting Front IP65 Part no. Article no.	Centre mounting Front IP65 Part no. Article no.	Surface mounting IP65 Part no. Article no.	Service distribution board mounting Front IP30 Part no. Article no.	Rear mounting Front IP65 Part no. Article no.
On-Off switch								
 FS 908	1	-	-	T0-1-8200/E 067352	T0-1-8200/EZ 069725	T0-1-8200/I1 207074	T0-1-8200/IVS 074471	T0-1-8200/Z 076844
	2	-	-	T0-1-102/E 088709	T0-1-102/EZ 091082	T0-1-102/I1 207061	T0-1-102/IVS 015147	T0-1-102/Z 095828
	3	-	-	T0-2-1/E 024639	T0-2-1/EZ 027012	T0-2-1/I1 207081	T0-2-1/IVS 031758	T0-2-1/Z 036504
	3	1	0	T0-2-15679/E 029387	T0-2-15679/EZ 031760	T0-2-15679/I1 207094	T0-2-15679/IVS 036506	T0-2-15679/Z 041252
	3 + N	-	-	T0-2-8900/E 207398	T0-2-8900/EZ 207402	T0-2-8900/I1 207109	T0-2-8900/IVS 207403	T0-2-8900/Z 207407
Changeoverswitches								
 FS 684	1	-	-	T0-1-8210/E 012742	T0-1-8210/EZ 048337	T0-1-8210/I1 207076	T0-1-8210/IVS 074440	T0-1-8210/Z 019862
	2	-	-	T0-2-8211/E 022234	T0-2-8211/EZ 053083	T0-2-8211/I1 207102	T0-2-8211/IVS 076813	T0-2-8211/Z 029354
	3	-	-	T0-3-8212/E 029353	T0-3-8212/EZ 057829	T0-3-8212/I1 207123	T0-3-8212/IVS 079186	T0-3-8212/Z 036473
	4	-	-	T0-4-8213/E 031726	T0-4-8213/EZ 062575	T0-4-8213/I1 207136	T0-4-8213/IVS 081559	T0-4-8213/Z 043592
 FS 943	1	-	-	T0-1-8220/E 031728	T0-1-8220/EZ 095799	T0-1-8220/I1 207078	T0-1-8220/IVS 055459	T0-1-8220/Z 086312
	2	-	-	T0-2-8221/E 038847	T0-2-8221/EZ 010372	T0-2-8221/I1 207104	T0-2-8221/IVS 057832	T0-2-8221/Z 074450
	3	-	-	T0-3-8222/E 048339	T0-3-8222/EZ 015118	T0-3-8222/I1 207124	T0-3-8222/IVS 060205	T0-3-8222/Z 088686
	4	-	-	T0-4-8223/E 050712	T0-4-8223/EZ 019864	T0-4-8223/I1 207137	T0-4-8223/IVS 062578	T0-4-8223/Z 086315
 FS 4011	1	-	-	T0-1-8214/E 019863	T0-1-8214/EZ 076815	T0-1-8214/I1 207077	T0-1-8214/IVS 045967	T0-1-8214/Z 050720
	2	-	-	T0-2-8215/E 022236	T0-2-8215/EZ 081561	T0-2-8215/I1 207103	T0-2-8215/IVS 048340	T0-2-8215/Z 053093
	3	-	-	T0-3-8216/E 024609	T0-3-8216/EZ 086307	T0-3-8216/I1 207434	T0-3-8216/IVS 050713	T0-3-8216/Z 055466
Reversing switches								
 FS 684	3	-	-	T0-3-8401/E 091047	T0-3-8401/EZ 093420	T0-3-8401/I1 207132	T0-3-8401/IVS 098166	T0-3-8401/Z 010366

For detailed product information on Eaton's switch disconnector range visit www.eaton.eu/switchdisconnectors



EMC Switch disconnectors



QSA Fuse combination



R9 series UL98
to 100 A



Dumeco up to 3150 A



Dumeco DC

Cam switches, switch-disconnectors

Control switches

Front plate no.	Main circuits Poles						
			Flush mounting	Centre mounting	Surface mounting	Service distribution board mounting	Rear mounting
			Front IP65 Part no. Article no.	Front IP65 Part no. Article no.	IP65 Part no. Article no.	Front IP30 Part no. Article no.	Front IP65 Part no. Article no.
ON-OFF switches							
 FS 415	1		T0-1-15401/E 038854	T0-1-15401/EZ 041227	T0-1-15401/I1 207067	T0-1-15401/IVS 045973	T0-1-15401/Z 048346
	2		T0-1-15402/E 053092	T0-1-15402/EZ 055465	T0-1-15402/I1 207068	T0-1-15402/IVS 060211	T0-1-15402/Z 062584
	3		T0-2-15403/E 067330	T0-2-15403/EZ 069703	T0-2-15403/I1 207088	T0-2-15403/IVS 074449	T0-2-15403/Z 076822
Voltmeter selector switches							
 FS 1410759	3 + N		T0-3-8007/E 095813	T0-3-8007/EZ 098186	T0-3-8007/I1 207120	T0-3-8007/IVS 012759	T0-3-8007/Z 015132
Ammeter selector switches							
 FS 9440	3		T0-3-8048/E 034116	T0-3-8048/EZ 036489	-	T0-3-8048/IVS 041235	T0-3-8048/Z 043608
Step switches							
 FS 606	1		T0-2-8231/E 012750	T0-2-8231/EZ 015123	T0-2-8231/I1 207106	T0-2-8231/IVS 019869	T0-2-8231/Z 022242
 FS 420	1		T0-2-8241/E 050716	T0-2-8241/EZ 053089	T0-2-8241/I1 207107	T0-2-8241/IVS 057835	T0-2-8241/Z 062581
Changeoverswitches							
 FS 1401	1		T0-1-15431/E 019872	T0-1-15431/EZ 022245	T0-1-15431/I1 207070	T0-1-15431/IVS 026991	T0-1-15431/Z 029364
	2		T0-2-15432/E 034110	T0-2-15432/EZ 036483	T0-2-15432/I1 207091	T0-2-15432/IVS 041229	T0-2-15432/Z 043602
	3		T0-3-15433/E 048348	T0-3-15433/EZ 050721	T0-3-15433/I1 207115	T0-3-15433/IVS 055467	T0-3-15433/Z 057840



Approvals

Eaton's switch disconnectors IEC devices can be used in most countries in the world and North American devices with virtually the same dimensions and the same accessories for the North American market. This considerably simplifies device selection since the North American standard often involve the need for considerably different technical specifications.



Comprehensive product information is available on our website <http://eaton.eu>

- Online catalogue
- CAD Models
- Data sheets
- Documentation

At Eaton, we're energized by the challenge of powering a world that demands more. With over 100 years experience in electrical power management, we have the expertise to see beyond today. From groundbreaking products to turnkey design and engineering services, critical industries around the globe count on Eaton.

We power businesses with reliable, efficient and safe electrical power management solutions. Combined with our personal service, support and bold thinking, we are answering tomorrow's needs today. Follow the charge with Eaton.

Visit eaton.com/electrical.