



Phase Control Thyristors

ABB Semiconductors AG

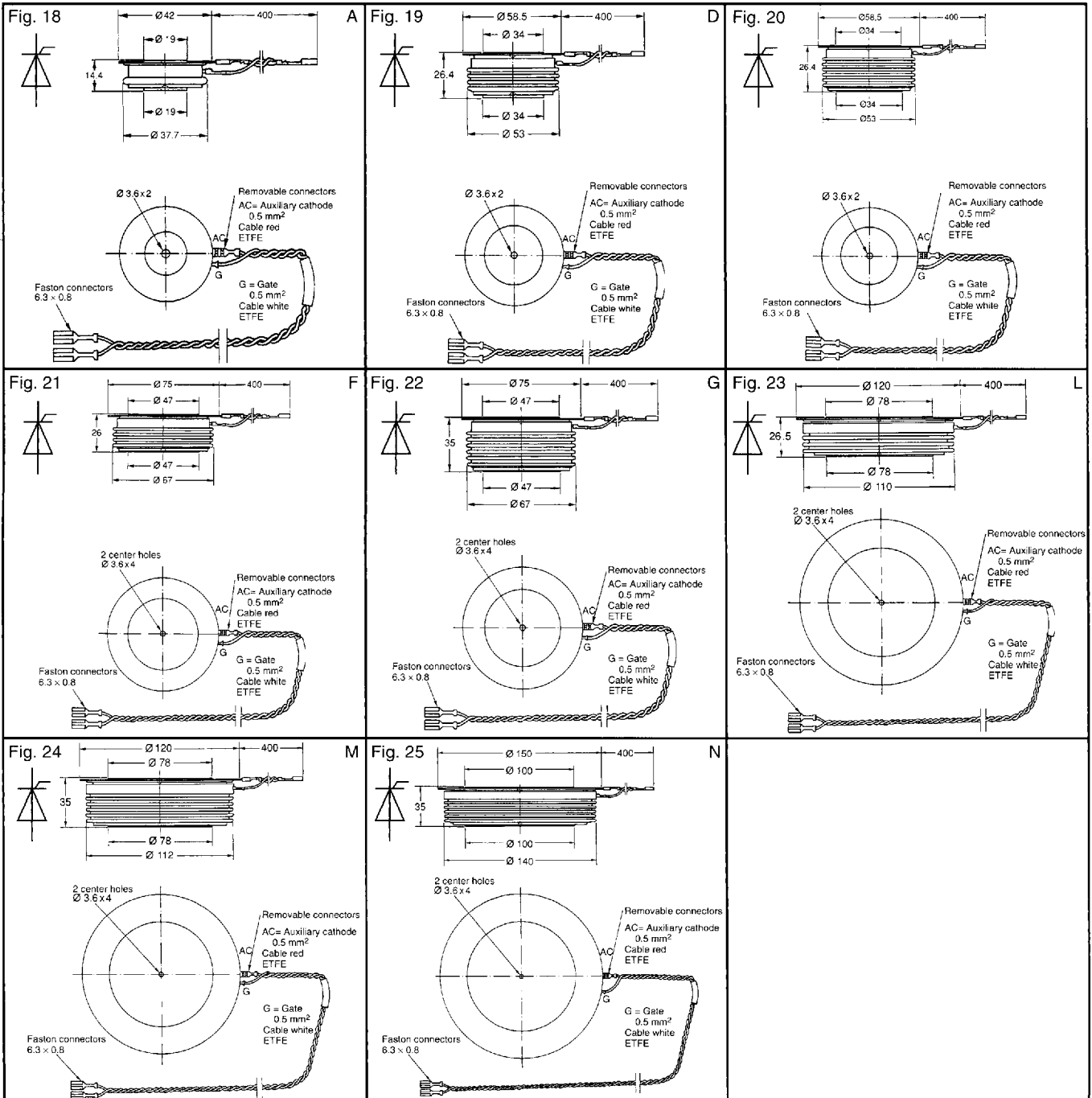
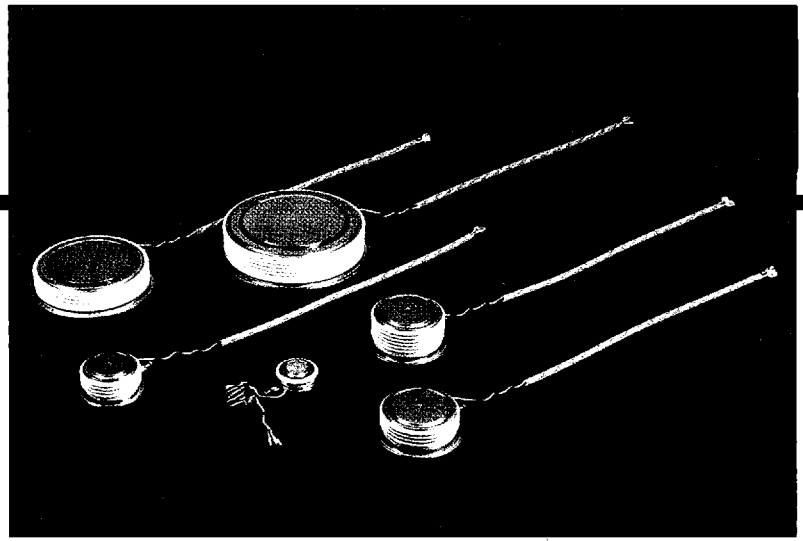
- Patented free-floating silicon technology.
- Designed for high power industrial and energy management applications.
- Optimized for low on-state voltage drop.
- Matched Q_{rr} and V_T values available for series and/or parallel connection.

- Patentierter freier Druckkontakt.
- Ausgelegt für Hochleistungsanwendungen in der Industrie und Energieübertragung.
- Optimiert für tiefe Durchlaßspannungen.
- Gruppierung für Q_{rr} und V_T Werte möglich für Serie und/oder Parallelschaltung.

- ・フリーフロート法シリコンチップ採用 (特許技術)
- ・産業用・電力用に開発された大電力サイリスタ
- ・低オン電圧降下用途に最適
- ・直列接続の便宜のため Q_{rr} 値による選別も可

Type and ordering number	V_{DSM} V_{RSM}	V_{DRM} V_{RRM}	I_{TAVM}	I_{TSM}		V_{TO}	r_T	T_{VJM}	R_{thJC}	R_{thCH}	F_m	Fig.
				$8.3\ ms$	$10\ ms$							
	** = $V_{DSM}/100\ V$		T_{VJM} Note 1	$T_C=70\ ^\circ C$	T_{VJM}	T_{VJM}						
	V	V	A	kA	kA	V	mΩ	°C	K/KW	K/KW	kN	
5STP 03A**00	1800 1600 1200	1800 1600 1200	325	5.5	5.0	0.89	0.85	125	90	40	4	18
5STP 07D**00	1800 1600 1200	1800 1600 1200	700	9.5	9.0	0.80	0.59	125	40	15	9	19
5STP 06D**00	2800 2600 2200	2800 2600 2200	590	8.5	8.0	0.92	0.78	125	40	15	9	19
5STP 04D**00	4200 4000 3600	4200 4000 3600	425	7.0	6.4	1.00	1.50	125	40	15	9	19
5STP 04X**00	5200 5000 4600	5200 5000 4600	400	5.5	5.0	1.20	1.60	125	45	15	8	20
5STP 03X**00	6500 6200 5800	5600 5400 5000	350	5.0	4.5	1.20	2.30	125	45	15	8	20
5STP 27F**00	1200 1000 600	700 600 400	2720	27.0	25.0	0.75	0.16	150	15	10	22	21
5STP 21F**00	1400 1200 800	1400 1200 800	2140	27.0	25.0	0.75	0.16	125	15	10	22	21
5STP 18F**00	1800 1600 1200	1800 1600 1200	1845	23.0	21.0	0.83	0.23	125	15	10	22	21
5STP 16F**00	2800 2600 2200	2800 2600 2200	1580	19.0	18.0	0.82	0.37	125	15	10	22	21
5STP 12F**00	4200 4000 3600	4200 4000 3600	1225	16.0	15.0	0.95	0.58	125	15	10	22	21
5STP 08G**00	6500 6200 5800	5600 5400 5000	815	12.5	11.6	1.22	0.97	125	18	10	22	22
5STP 27L**00	1800 1600 1200	1800 1600 1200	2700	50.0	47.0	0.88	0.10	125	12	5	50	23
5STP 24L**00	2800 2600 2200	2800 2600 2200	2350	46.0	43.0	0.85	0.16	125	12	5	50	23
5STP 18L**00	4200 4000 3600	4200 4000 3600	1850	35.0	32.0	0.96	0.29	125	12	5	50	23
5STP 17L**00	5200 5000 4600	4400 4200 4000	1700	30.5	28.0	1.02	0.32	125	12	5	50	23
5STP 12M**00	6500 6200 5800	5600 5400 5000	1200	25.0	23.0	1.20	0.60	125	14	5	50	24
5STP 33L**00	2800 2600 2200	2800 2600 2200	3300	64.0	60.0	0.95	0.10	125	8	3	70	23
5STP 28L**00	4200 4000 3600	4200 4000 3600	2800	56.0	52.0	0.97	0.16	125	8	3	70	23
5STP 25L**00	5200 5000 4600	4400 4200 4000	2500	45.0	42.0	1.00	0.23	125	8	3	70	23
5STP 18M**00	6500 6200 5800	5600 5400 5000	1800	35.0	32.0	1.20	0.43	125	9	3	70	24
5STP 45N**00	2800 2600 2200	2800 2600 2200	4500	79.0	75.0	0.86	0.07	125	6	2	90	25
5STP 38N**00	4200 4000 3600	4200 4000 3600	3750	65.0	60.0	0.95	0.13	125	6	2	90	25
5STP 34N**00	5200 5000 4600	4400 4200 4000	3350	59.0	55.0	1.03	0.16	125	6	2	90	25
5STP 26N**00	6500 6200 5800	5600 5400 5000	2650	49.0	45.0	1.12	0.29	125	6	2	90	25

Note 1: For devices with V_{DSM} from 4600 to 6500 V, V_{DRM} and V_{RRM} are equal with V_{DSM} -values for temperatures up to 110 °C. Please contact us for our application note or further information.



Dimensions in mm.

Part numbering structure and ordering code, please refer to page 13.