Phase Control Power Thyristors

- designed for high power industrial and power transmission applications
- optimized for low on-state voltage drop
- matched Q_{rr} and V_T values available for series and/or parallel connections

Part number	V_{DRM} V_{RRM}	I_{TAVM}	I_{TSM}		V_{T0}	r_T	T_{VJM}	R_{thJC}	R_{thCH}	F_m	Housing
	T_{VJM}	T_C=70°C	8.3ms T_{VJM}	10ms T_{VJM}	T_{VJM}						
	V	A	kA	kA	V	mΩ	°C	K/kW	K/kW	kN	
5STP 10D1601	1600	969	16.0	15.0	0.93	0.302	125	32.0	7.5	10	D
5STP 20F1601	1600	1901	29.2	27.3	0.95	0.152	125	16.0	4.0	22	F
5STP 34H1601	1600	3370	52.3	49.0	0.94	0.066	125	10.0	3.0	50	H
5STP 07D1800	1800	730	9.5	9.0	0.80	0.540	125	36.0	7.5	10	D
5STP 09D1801	1800	932	14.6	13.7	0.94	0.341	125	32.0	7.5	10	D
5STP 18F1800	1800	1660	22.0	21.0	0.83	0.230	125	17.0	4.0	22	F
5STP 18F1801	1800	1825	28.0	26.2	0.97	0.170	125	16.0	4.0	22	F
5STP 27H1800	1800	3000	53.3	50.5	0.88	0.103	125	10.0	2.0	50	H
5STP 30H1801	1800	3108	50.2	47.0	0.98	0.081	125	10.0	3.0	50	H
5STP 50Q1800	1800	6100	100.0	94.0	0.90	0.050	125	5.0	1.0	90	Q
5STP 09D2201	2200	862	12.8	12.0	1.00	0.404	125	32.0	7.5	10	D
5STP 17F2201	2200	1702	27.2	25.5	0.99	0.206	125	16.0	4.0	22	F
5STP 29H2201	2200	2855	48.1	45.0	1.00	0.107	125	10.0	3.0	50	H
5STP 06D2800	2800	620	8.5	8.0	0.92	0.780	125	36.0	7.5	10	D
5STP 08D2801	2800	793	11.3	10.6	1.02	0.510	125	32.0	7.5	10	D
5STP 16F2800	2800	1400	19.0	18.0	0.82	0.370	125	17.0	4.0	22	F
5STP 16F2801	2800	1512	25.2	23.6	1.02	0.265	125	16.0	4.0	22	F
5STP 24H2800	2800	2625	46.0	43.0	0.85	0.160	125	10.0	2.0	50	H
5STP 27H2801	2800	2670	45.9	43.0	1.04	0.127	125	10.0	3.0	50	H
5STP 33L2800	2800	3740	65.0	60.0	0.95	0.100	125	7.0	1.5	70	L
5STP 45N2800	2800	5080	79.0	75.0	0.86	0.070	125	5.7	1.0	90	N
5STP 45Q2800	2800	5490	79.0	75.0	0.86	0.070	125	5.0	1.0	90	Q
5STP 04D4200	4200	470	7.0	6.4	1.00	1.500	125	36.0	7.5	10	D
5STP 12F4200	4200	1150	16.0	15.0	0.95	0.575	125	17.0	4.0	22	F
5STP 18H4200	4200	2075	35.0	32.0	0.96	0.285	125	10.0	2.0	50	H
5STP 28L4200	4200	3170	55.6	52.0	0.97	0.158	125	7.0	1.5	70	L
5STP 38N4200	4200	3960	65.0	60.0	0.95	0.130	125	5.7	1.0	90	N
5STP 38Q4200	4200	4275	65.0	60.0	0.95	0.130	125	5.0	1.0	90	Q

Please refer to page 21 for part numbering structure.

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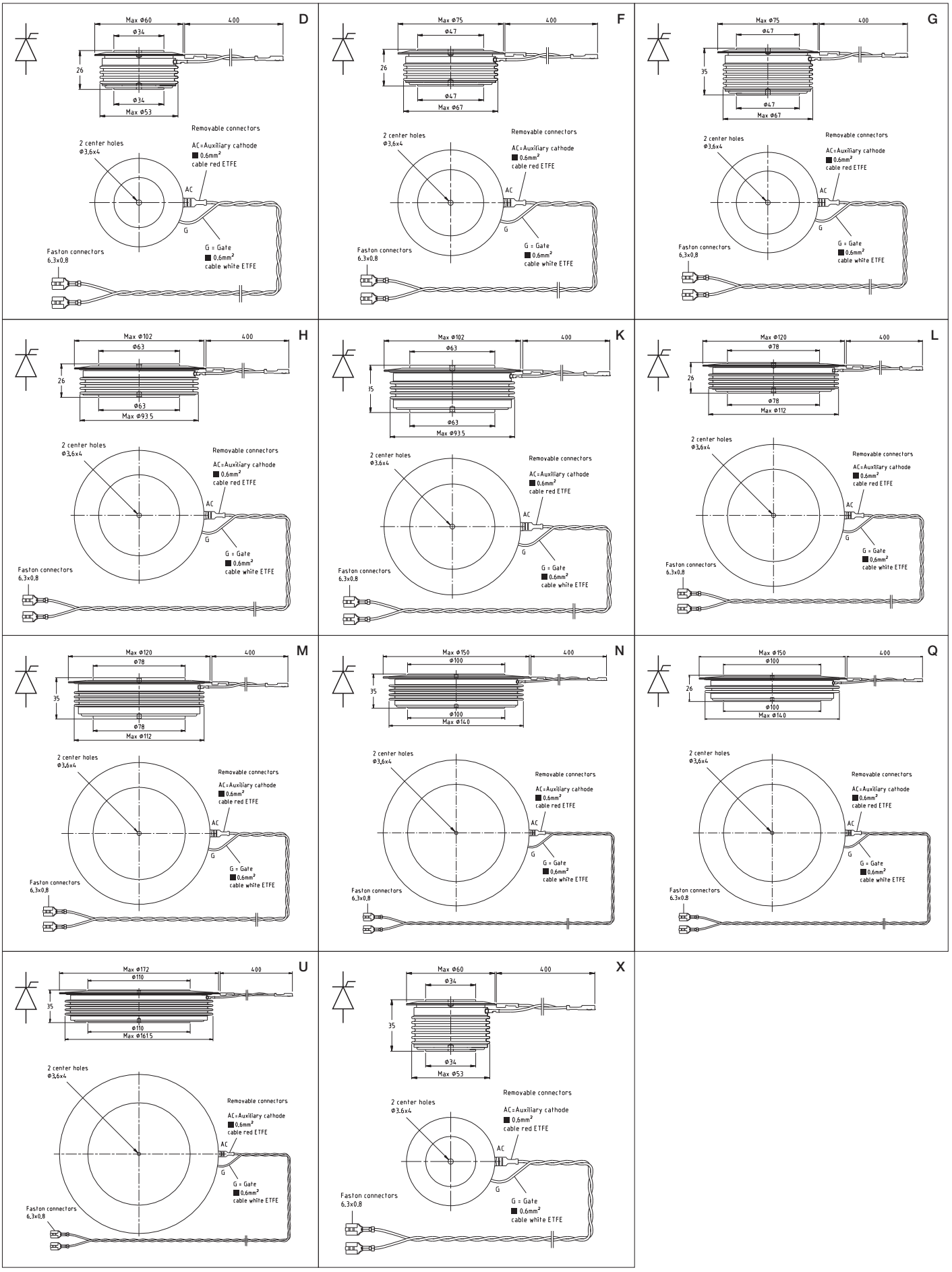
Part number	V_{DRM} V_{RRM}	I_{TAVM}	I_{TSM}		V_{T0}	r_T	T_{VJM}	R_{thJC}	R_{thCH}	F_m	Housing
	T_{VJM}	T_C=70°C	8.3ms T_{VJM}	10ms T_{VJM}	T_{VJM}						
	V	A	kA	kA	V	mΩ	°C	K/kW	K/kW	kN	
5STP 04D5200	5200	440	5.4	5.0	1.20	1.600	125	36.0	7.5	10	D
5STP 17H5200	5200	1975	31.0	29.0	1.02	0.320	125	10.0	2.0	50	H
5STP 25L5200	5200	2760	45.0	42.0	1.00	0.225	125	7.0	1.5	70	L
5STP 25M5200	5200	2540	45.0	42.0	1.00	0.225	125	9.0	1.5	70	M
5STP 34N5200	5200	3600	60.0	55.0	1.03	0.160	125	5.7	1.0	90	N
5STP 34Q5200	5200	3875	60.0	55.0	1.03	0.160	125	5.0	1.0	90	Q
5STP 52U5200	5200	4120	90.3	82.5	1.04	0.115	110	4.0	0.8	135	U
5STP 03D6500	6500	380	4.8	4.5	1.20	2.300	125	36.0	7.5	10	D
5STP 08F6500	6500	830	12.8	11.8	1.24	1.015	125	17.0	4.0	22	F
5STP 08G6500	6500	720	12.8	11.8	1.24	1.015	125	22.0	4.0	22	G
5STP 12K6500	6500	1370	23.4	21.9	1.18	0.632	125	11.0	2.0	50	K
5STP 18M6500	6500	1800	35.0	32.0	1.20	0.430	125	9.0	1.5	70	M
5STP 26N6500	6500	2810	50.0	45.0	1.12	0.290	125	5.7	1.0	90	N
5STP 42U6500	6500	3430	76.2	71.4	1.24	0.162	110	4.0	0.8	135	U
5STP 03X6500	6500	350	4.8	4.5	1.20	2.300	125	45.0	7.5	10	X
5STP 12N8500	8500	1200	38.0	35.0	1.25	0.480	90	5.7	1.0	90	N

Please refer to page 21 for part numbering structure.



Dimensions in mm