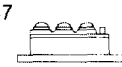
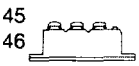
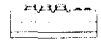
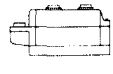
Phase control thyristor modules

Type	V_{DRM} V_{RRM} $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V V			I_{TRMSM} A	I_{TSM} 10 ms, $t_{vj\,max}$ A	$\int i^2dt$ 10 ms, $t_{vj\,max}$ kA²s	I_{TAVM}/t_C 180 °el sin. A/°C	$V_{(TO)}$ $t_{vj} =$ $t_{vj\,max}$ V	r_T $t_{vj} =$ $t_{vj\,max}$ mΩ	$(di/dt)_{cr}$ DIN IEC 747-6 A/µs	t_q typ. µs	$(dv/dt)_{cr}$ DIN IEC 747-6 V/µs	R_{thJC} 180 °el sin. °C/W	R_{thCK} °C/W	$t_{vj\,max}$ °C	Outline
Baseplate = 20 mm																
TT 18 N **TD 18 N** **DT 18 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**40**	**350**	**0.61**	**25/60** **18/85**	1.1	16	100	50	F = 1000	1.2	0.2	125	44 45
TT 25 N **TD 25 N** **DT 25 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**50**	**510**	**1.3**	**32/69** **25/85**	1.05	11	100	60	F = 1000	0.92	0.2	125	
TT 31 N **TD 31 N** **DT 31 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**75**	**680**	**2.3**	**48/50** **31/85**	0.95	6.4	100	60	F = 1000	0.92	0.2	125	
TT 36 N **TD 36 N** **DT 36 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**80**	**850**	**3.6**	**51/60** **36/85**	1	6.2	120	60	F = 1000	0.72	0.16	125	
TT 46 N **TD 46 N** **DT 46 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**100**	**1000**	**5**	**64/61** **46/85**	0.95	4.5	120	60	F = 1000	0.60	0.16	125	
TT 56 N **TD 56 N** **DT 56 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**100**	**1350**	**9.1**	**64/77** **56/85**	0.9	3.5	120	80	F = 1000	0.52	0.16	125	
TT 60 N **TD 60 N** **DT 60 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**120**	**1400**	**9.8**	**76/68** **60/85**	0.8	3.4	150	120	F = 1000	0.52	0.16	125	47 
TT 61 N **TD 61 N** **DT 61 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**120**	**1400**	**9.8**	**76/68** **60/85**	0.8	3.4	150	120	F = 1000	0.52	0.16	125	48 
TT 66 N **TD 66 N** **DT 66 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**120**	**1400**	**9.8**	**77/74** **66/85**	0.85	3.2	120	80	F = 1000	0.50	0.16	130	44 45 
TT 75 N **TD 75 N** **DT 75 N**	**600** **1200**	**800** **1400**	**1000**	**150**	**1700**	**14.4**	**95/70** **75/85**	0.85	2.6	150	180	F = 1000	0.39	0.1	125	47 
TT 92 N **TD 92 N** **DT 92 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**160**	**1800**	**16.2**	**104/76** **92/85**	0.85	2.15	150	150	F = 1000	0.37	0.1	130	48 
TT 93 N **TD 93 N** **DT 93 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**150**	**1850**	**17.1**	**96/83** **93/85**	0.85	2.2	120	120	F = 1000	0.36	0.1	130	45 46 
TT 95 N **TD 95 N** **DT 95 N**	**600** **1200**	**800** **1400**	**1000**	**150**	**1700**	**14.4**	**95/85**	0.85	2.6	150	200	F = 1000	0.39	0.1	140	47 
TT 104 N **TD 104 N** **DT 104 N**	**600** **1200**	**800** **1400**	**1000**	**160**	**1800**	**16.2**	**104/85**	0.85	2.15	150	150	F = 1000	0.37	0.1	140	48 
TT 105 N **TD 105 N** **DT 105 N**	**600** **1200**	**800** **1400**	**1000** **1600**	**160**	**2200**	**24**	**105/85**	0.85	1.8	120	120	F = 1000	0.33	0.1	130	45 46 

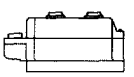
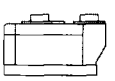
Most types of the power module have been **UL**-recognized.

Phase control thyristor modules

Type	V_{DRM} V_{RRM} $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V V	I_{TRMSM} A	I_{TSM} 10 ms, $t_{vj\ max}$ A	$\int i^2dt$ 10 ms, $t_{vj\ max}$ kA²s	I_{TAVM}/t_C 180 °el sin. A/°C	$V_{(TO)}$ $t_{vj} = t_{vj\ max}$ V	r_T $t_{vj} = t_{vj\ max}$ mΩ	$(di/dt)_{cr}$ DIN IEC 747-6 A/µs	t_q typ. µs	$(dv/dt)_{cr}$ DIN IEC 747-6 V/µs	R_{thJC} 180 °el sin °C/W	R_{thCK} °C/W	$t_{vj\ max}$ °C	Outline
Baseplate = 25 mm														
TT 70 N	1600 1800 2000 2200	150	1150	6.61	96/57 70/85	1	4.5	100	300	C = 500 F = 1000	0.37	0.08	130	49
▲ TT 85 N	1800 2000	180	2000	20	115/83 85/85	0.9	2.6	150	150	F = 1000	0.33	0.08	125	
TT 106 N TD 106 N DT 106 N	600 800 1000 1200 1400 1600 1800	180	2000	20	115/78 106/85	0.9	2.6	150	150	F = 1000	0.33	0.08	140	
Baseplate = 30 mm														
TT 121 N TD 121 N DT 121 N	1000 1200 1400 1600 1800	200	2350	27.6	128/81 121/85	0.85	2	150	180	F = 1000	0.23	0.06	125	50
TT 131 N TD 131 N DT 131 N	600 800 1000 1200 1400	220	3200	51.2	140/81 131/85	0.85	1.5	150	180	F = 1000	0.23	0.06	125	
Baseplate = 34 mm														
TT 122 N	1600 1800 2000 2200	220	2950	43.5	140/76 122/85	1	2.15	100	300	C = 500 F = 1000	0.2	0.06	125	51
TT 142 N TD 142 N DT 142 N	600 800 1000 1200 1400 1600	230	4100	84	142/85	0.9	1.1	150	200	F = 1000	0.22	0.06	125	
TT 162 N TD 162 N DT 162 N	600 800 1000 1200 1400 1600	260	4400	97	162/85	0.85	0.95	150	200	F = 1000	0.20	0.06	125	
Baseplate = 50 mm														
TT 150 N TD 150 N DT 150 N	1800 2000 2200 2400 2600	350	4000	80	223/54 150/85	1.2	2.3	60	300	C = 500 F = 1000	0.13	0.04	125	52
TT 170 N TD 170 N DT 170 N	600 800 1000 1200 1400 1600	350	4600	106	223/68 170/85	0.95	1.0	150	250	F = 1000	0.17	0.04	125	
TT 210 N TD 210 N DT 210 N	600 800 1000 1200 1400 1600 1800	410	5800	168	261/73 210/85	1	0.85	150	250	F = 1000	0.13	0.04	125	

Most types of the power module have been **UL**-recognized.
▲ New type

Phase control thyristor modules

Type	V_{DRM} V_{RRM} $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100$ V V			I_{TRMSM} A	I_{TSM} 10 ms, $t_{vj\ max}$ A	$\int i^2dt$ 10 ms, $t_{vj\ max}$ kA²s	I_{TAVM}/t_C 180 °el sin. A/°C	$V_{(TO)}$ $t_{vj} =$ $t_{vj\ max}$ V	r_T $t_{vj} =$ $t_{vj\ max}$ mΩ	$(di/dt)_{cr}$ DIN IEC 747-6 A/µs	t_q typ. µs	$(dv/dt)_{cr}$ DIN IEC 747-6 V/µs	R_{thJC} 180 °el sin. °C/W	R_{thCK} °C/W	$t_{vj\ max}$ °C	Outline
Baseplate = 50 mm																
TT 215 N	1800	2000	2200	410	6300	198	261/73 215/85	0.95	0.92	100	300	C = 500 F = 1000	0.13	0.04	125	52
TT 250 N TD 250 N DT 250 N	600 1200 1800	800 1400	1000 1600	410	7000	245	261/82 250/85	0.8	0.7	150	250	F = 1000	0.13	0.04	125	
TT 251 N TD 251 N DT 251 N	600 1200 1800	800 1400	1000 1600	410	8000	320	261/82 250/85	0.8	0.7	250	250	F = 1000	0.13	0.04	125	
TT 265 N TD 265 N DT 265 N	200	400	600	450	5500	151	286/79 265/85	0.8	0.65	200	200	F = 1000	0.17	0.04	140	
▲ TT 285 N ▲ TD 285 N ▲ DT 285 N	1200	1400	1600	450	8000	320	285/95	0.8	0.7	250	250	F = 1000	0.13	0.04	140	
TZ 310 N	2000 2600	2200	2400	700	9000	405	445/58 310/85	1	0.86	120	300	C = 500 F = 1000	0.078	0.02	125	53
TZ 425 N	600 1200 1800*	800 1400	1000 1600	800	12500	781	510/74 425/85	0.9	0.3	120	250	F = 1000	0.078	0.02	125	
▲ TZ 500 N	600 1200	800 1400	1000 1600	900	14500	1051	573/77 500/85	0.9	0.27	200	250	F = 1000	0.065	0.02	125	
Baseplate = 60 mm																
TT 310 N TD 310 N DT 310 N	2000 2600	2200	2400	700	9000	405	445/58 310/85	1	0.86	120	300	C = 500	0.078	0.02	125	55
TT 425 N TD 425 N DT 425 N	600 1200 1800*	800 1400	1000 1600	800	12500	781	510/74 425/85	0.9	0.3	120	250	F = 1000	0.078	0.02	125	
TT 430 N TD 430 N DT 430 N	1800 2400*	2000	2200	800	11500	661	510/75 430/85	0.95	0.45	150	300	C = 500 F = 1000	0.065	0.02	125	
TT 500 N TD 500 N DT 500 N	600 1200	800 1400	1000 1600	900	14500	1051	573/77 500/85	0.9	0.27	200	250	F = 1000	0.065	0.02	125	

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▲ New type

* Delivery for large quantities on request