Предлагаем продукцию SEMIKRON и другие ЭЛЕКТРОННЫЕ КОМПОНЕНТЫ (радиодетали) СО СКЛАДА И ПОД ЗАКАЗ
Беларусь г.Минск тел./факс 8(017)200-56-46 www.fotorele.net e:mail minsk17@tut.by

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IGBT Modules

SEMiX®

half bridge
6-pack
chopper

600V
up to
1700V

I_{Cnom} in A 0 20 40 60 80 100 300 600 900

SEMITRANS®

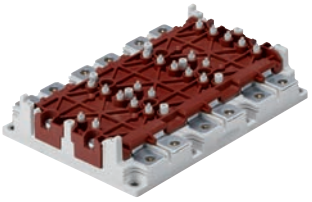
half bridge
6-pack
chopper
single switch

600V
up to
1700V

I_{Cnom} in A 0 20 40 60 80 100 300 600 900

SKiM®63/93

6-pack

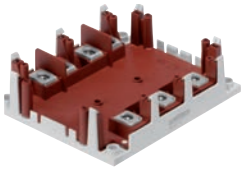


600V
up to
1700V

I_{Cnom} in A 0 20 40 60 80 100 300 600 900

SKiM®4/5

6-pack
3-level



600V
up to
1700V

I_{Cnom} in A 0 20 40 60 80 100 300 600 900

MiniSKiiP®

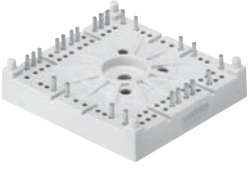
6-pack
3-level
H-bridge
CIB

600V
up to
1200V

I_{Cnom} in A 0 20 40 60 80 100 300 600 900

SEMITOP®

half bridge
6-pack
3-level
chopper
H-bridge
CIB



600V
up to
1200V

I_{Cnom} in A 0 20 40 60 80 100 300 600 900

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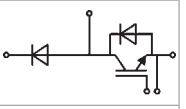
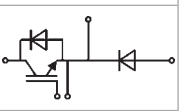
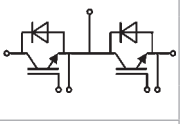
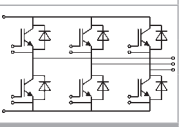
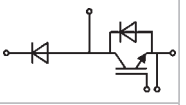
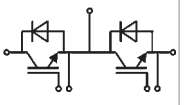
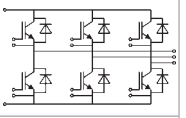
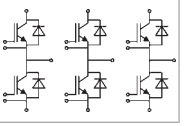
Modules - IGBT - SEMiX

Type	IGBT						Diode				Case		Circuit
	I_C @T_C= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-c)}$	I_F @T_C= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-c)}$	Case	$R_{th(c-s)}$	
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W		K/W	
600 V - IGBT 3 (Trench)													
SEMiX402GAL066HDs	502	400	1.45	22	24	0.12	543	1.4	10	0.15	2s	0.045	
SEMiX603GAL066HDs	720	600	1.45	12	43	0.087	771	1.4	13	0.11	3s	0.04	
SEMiX402GAR066HDs	502	400	1.45	22	24	0.12	543	1.4	10	0.15	2s	0.045	
SEMiX603GAR066HDs	720	600	1.45	12	43	0.087	771	1.4	13	0.11	3s	0.04	
SEMiX202GB066HDs	274	200	1.45	6	8	0.21	291	1.4	6.5	0.27	2s	0.045	
SEMiX302GB066HDs	379	300	1.45	11.5	15	0.16	419	1.4	7.5	0.19	2s	0.045	
SEMiX402GB066HDs	502	400	1.45	22	24	0.12	543	1.4	10	0.15	2s	0.045	
SEMiX603GB066HDs	720	600	1.45	12	43	0.087	771	1.4	13	0.11	3s	0.04	
SEMiX101GD066HDs	139	100	1.45	3	4	0.41	151	1.4	4.5	0.51	13	0.04	
SEMiX151GD066HDs	200	150	1.45	3.8	6.1	0.29	219	1.4	5.8	0.36	13	0.04	
SEMiX201GD066HDs	259	200	1.45	5	8	0.23	284	1.4	7.5	0.28	13	0.04	
1200 V - V-IGBT													
SEMiX151GAL12Vs [1]	231	150	1.75	19.4	17.1	0.19	189	2.1	11.5	0.31	1s	0.075	
SEMiX151GB12Vs	231	150	1.75	19.4	17.1	0.19	189	2.14	11.5	0.31	1s	0.075	
SEMiX202GB12Vs	310	200	1.75	24.9	24.1	0.14	229	2.2	14.5	0.26	2s	0.045	
SEMiX223GB12Vs	323	225	1.85	19.9	27.2	0.14	263	2.2	16.4	0.23	3s	0.04	
SEMiX302GB12Vs	448	300	1.75	37.3	36.1	0.1	356	2.1	21.8	0.17	2s	0.045	
SEMiX303GB12Vs	448	300	1.75	26.5	36.3	0.1	327	2.2	21.4	0.19	3s	0.04	
SEMiX404GB12Vs	596	400	1.75	39.1	52.3	0.075	440	2.2	34.3	0.14	4s	0.03	
SEMiX453GB12Vs	673	450	1.75	39.8	54.4	0.067	516	2.1	32.7	0.12	3s	0.04	
SEMiX603GB12Vs [1]	800	600	1.85	50	83	0.057	516	2.4	40	0.12	3s	0.04	
SEMiX604GB12Vs	880	600	1.75	58.7	78.5	0.051	707	2.1	49.5	0.086	4s	0.03	
SEMiX101GD12Vs	159	100	1.75	12.9	11.4	0.27	121	2.2	7.7	0.48	13	0.04	
SEMiX151GD12Vs	231	150	1.75	19.4	17.1	0.19	189	2.1	11.5	0.31	13	0.04	
SEMiX223GD12Vc	323	225	1.85	19.9	27.2	0.14	263	2.2	16.4	0.23	33c	0.014	
SEMiX303GD12Vc	448	300	1.75	26.5	36.3	0.1	327	2.2	21.4	0.19	33c	0.014	
SEMiX453GD12Vc	673	450	1.75	39.8	54.4	0.067	516	2.1	32.7	0.12	33c	0.014	

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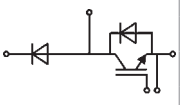
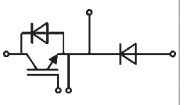
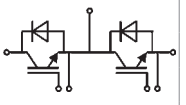
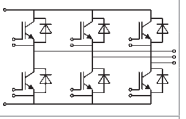
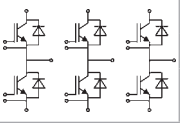
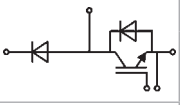
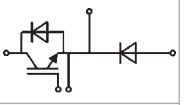
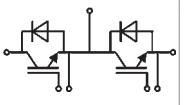
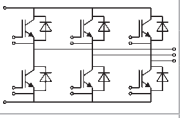
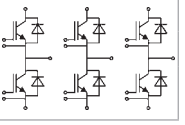
Type	IGBT						Diode				Case		Circuit
	I_C @T_C= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-c)}$	I_F @T_C= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-c)}$	Case	$R_{th(c-s)}$	
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W		K/W	
1200 V - IGBT 4 (Trench)													
SEMiX151GAL12E4HDs	232	150	1.8	18	18	0.19	207	1.7	12	0.31	1s	0.075	
SEMiX302GAL12E4HDs	463	300	1.8	33	44	0.096	387	1.7	25	0.17	2s	0.045	
SEMiX453GAL12E4HDs	683	450	1.8	50	67	0.065	592	1.7	36	0.11	3s	0.04	
SEMiX604GAL12E4HDs	916	600	1.8	38	110	0.049	777	1.7	57	0.086	4s	0.03	
SEMiX151GAR12E4HDs	232	150	1.8	18	18	0.19	207	1.7	12	0.31	1s	0.075	
SEMiX302GAR12E4HDs	463	300	1.8	33	44	0.096	387	1.7	25	0.17	2s	0.045	
SEMiX453GAR12E4HDs	683	450	1.8	50	67	0.065	592	1.7	36	0.11	3s	0.04	
SEMiX604GAR12E4HDs	916	600	1.8	38	110	0.049	777	1.7	57	0.086	4s	0.03	
SEMiX151GB12E4HDs	232	150	1.8	18	18	0.19	207	1.7	12	0.31	1s	0.075	
SEMiX202GB12E4HDs	314	200	1.8	24	28	0.14	249	1.8	16	0.26	2s	0.045	
SEMiX302GB12E4HDs	463	300	1.8	33	44	0.096	387	1.7	25	0.17	2s	0.045	
SEMiX303GB12E4HDs	466	300	1.8	33	41	0.095	362	1.8	23	0.18	3s	0.04	
SEMiX404GB12E4HDs	618	400	1.8	30	60	0.072	471	1.8	34	0.14	4s	0.03	
SEMiX453GB12E4HDs	683	450	1.8	50	67	0.065	592	1.7	36	0.11	3s	0.04	
SEMiX604GB12E4HDs	916	600	1.8	38	110	0.049	777	1.7	57	0.086	4s	0.03	
SEMiX71GD12E4HDs	115	75	1.85	8.5	9	0.38	107	1.7	7	0.58	13	0.04	
SEMiX101GD12E4HDs	160	100	1.8	12	13	0.27	130	1.8	8	0.48	13	0.04	
SEMiX151GD12E4HDs	232	150	1.8	16	19	0.19	207	1.7	16	0.31	13	0.04	
SEMiX223GD12E4HDc	333	225	1.85	24	31	0.135	296	1.7	22	0.22	33c	0.014	
SEMiX303GD12E4HDc	466	300	1.8	33	42	0.095	362	1.8	30	0.18	33c	0.014	
SEMiX453GD12E4HDc	683	450	1.8	57	68	0.065	592	1.7	36	0.11	33c	0.014	
1200 V - IGBT 3 (Trench)													
SEMiX452GAL126HDs	455	300	1.7	35	45	0.083	394	1.6	33	0.15	2s	0.045	
SEMiX703GAL126HDs	642	450	1.7	32	68	0.061	561	1.6	60	0.11	3s	0.04	
SEMiX703GAR126HDs	642	450	1.7	32	68	0.061	561	1.6	60	0.11	3s	0.04	
SEMiX252GB126HDs	242	150	1.7	20	21	0.15	228	1.6	18	0.24	2s	0.045	
SEMiX302GB126HDs	311	200	1.7	30	26	0.12	292	1.6	22.5	0.19	2s	0.045	
SEMiX353GB126HDs	364	225	1.7	26.5	32.5	0.1	329	1.6	29	0.17	3s	0.04	
SEMiX452GB126HDs	455	300	1.7	35	45	0.083	394	1.6	33	0.15	2s	0.045	
SEMiX503GB126HDs	466	300	1.7	28	44	0.08	431	1.6	32.5	0.13	3s	0.04	
SEMiX604GB126HDs	590	400	1.7	36	60	0.065	533	1.6	46	0.11	4s	0.03	
SEMiX703GB126HDs	642	450	1.7	32	68	0.061	561	1.6	60	0.11	3s	0.04	
SEMiX904GB126HDs	821	600	1.7	60	88	0.05	752	1.6	75	0.081	4s	0.03	
SEMiX101GD126HDs	129	75	1.7	10	11	0.27	117	1.6	9	0.46	13	0.04	
SEMiX151GD126HDs	168	100	1.7	12	14	0.21	152	1.6	11.5	0.36	13	0.04	
SEMiX251GD126HDs	242	150	1.7	19	22	0.15	207	1.6	14.5	0.28	13	0.04	
SEMiX353GD126HDc	364	225	1.7	26.5	32.5	0.1	329	1.6	29	0.17	33c	0.014	
SEMiX503GD126HDc	466	300	1.7	28	44	0.08	412	1.6	32.5	0.14	33c	0.014	
SEMiX703GD126HDc	642	450	1.7	32	68	0.061	561	1.6	60	0.11	33c	0.014	

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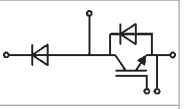
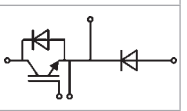
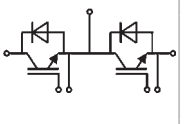
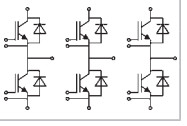
Modules - IGBT - SEMiX

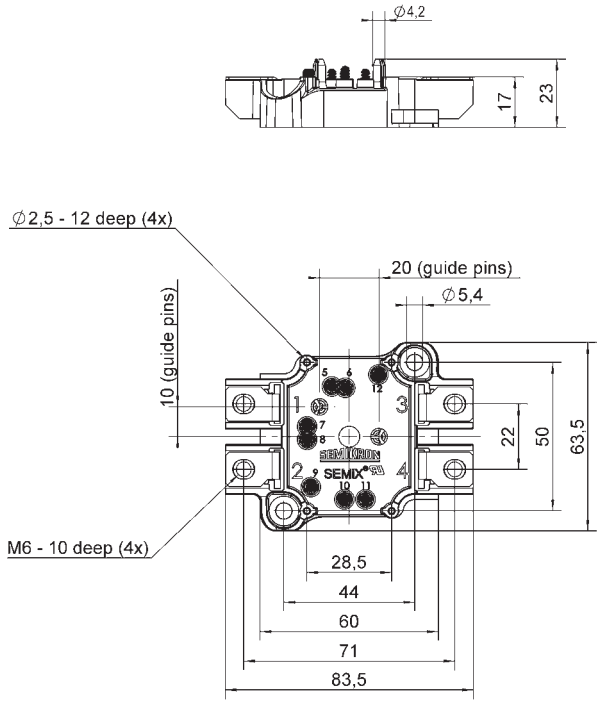
Type	IGBT						Diode				Case		Circuit
	I_C @T_C= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-c)}$	I_F @T_C= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-c)}$	Case	$R_{th(c-s)}$	
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W		K/W	
1700 V - IGBT 3 (Trench)													
SEMiX653GAL176HDs	619	450	2	300	180	0.054	545	1.7	73	0.11	3s	0.04	
SEMiX653GAR176HDs	619	450	2	300	180	0.054	545	1.7	73	0.11	3s	0.04	
SEMiX252GB176HDs	246	150	2	90	55	0.12	288	1.6	32	0.19	2s	0.045	
SEMiX302GB176HDs	308	200	2	130	77	0.1	389	1.5	43	0.15	2s	0.045	
SEMiX353GB176HDs	353	225	2	155	85	0.086	428	1.6	45	0.13	3s	0.04	
SEMiX452GB176HDs	437	300	2	180	110	0.073	389	1.7	46	0.15	2s	0.045	
SEMiX453GB176HDs	444	300	2	215	125	0.071	545	1.5	65	0.11	3s	0.04	
SEMiX604GB176HDs	567	400	2	215	165	0.058	740	1.5	95	0.081	4s	0.03	
SEMiX653GB176HDs	619	450	2	300	180	0.054	545	1.7	73	0.11	3s	0.04	
SEMiX854GB176HDs	779	600	2	300	250	0.045	740	1.7	170	0.081	4s	0.03	
SEMiX353GD176HDc	353	225	2	155	85	0.086	428	1.6	45	0.13	33c	0.014	
SEMiX453GD176HDc	444	300	2	215	125	0.071	545	1.5	65	0.11	33c	0.014	
SEMiX653GD176HDc	619	450	2	300	180	0.054	545	1.7	73	0.11	33c	0.014	

Footnotes

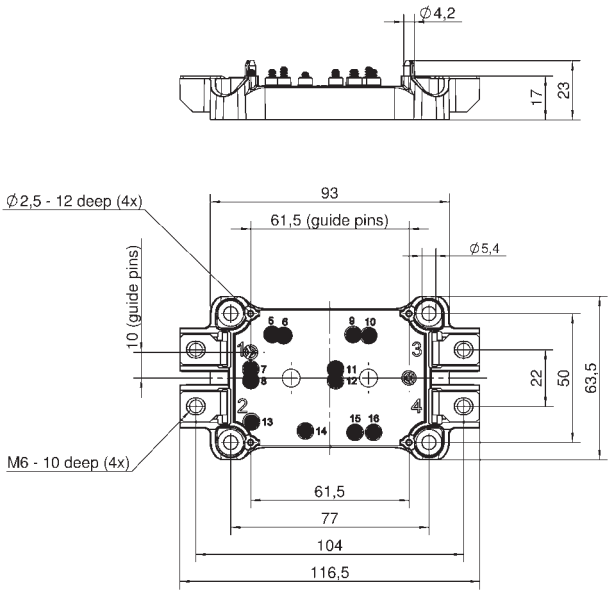
1) New

Cases

SEMiX 1s



SEMiX 2s



Dimensions in mm

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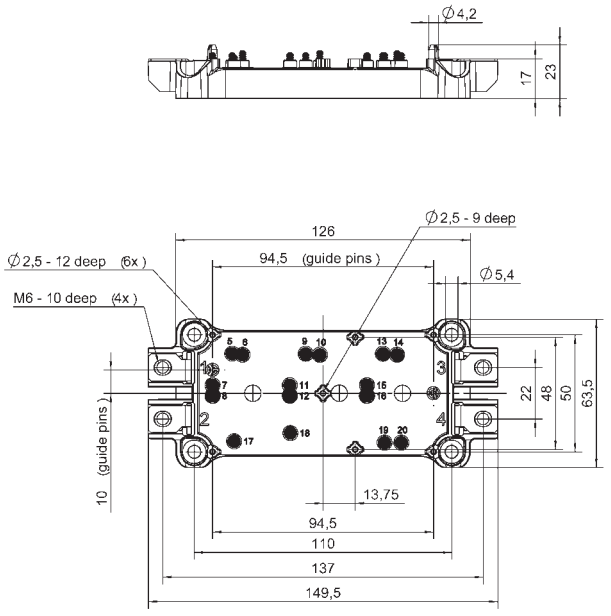
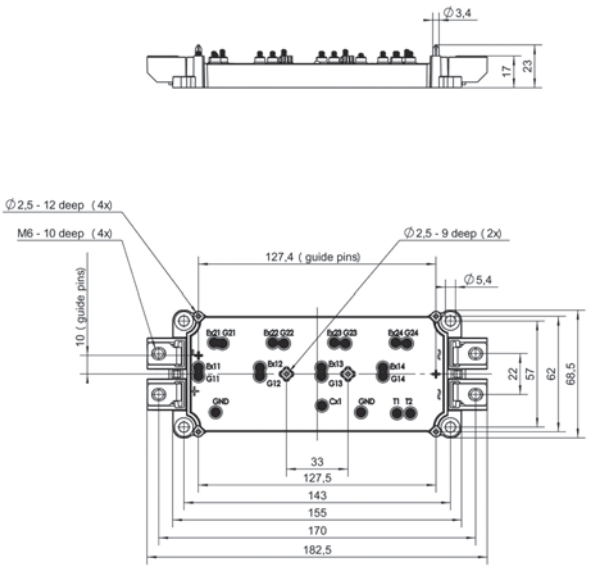
Modules - IGBT - SEMiX

Cases

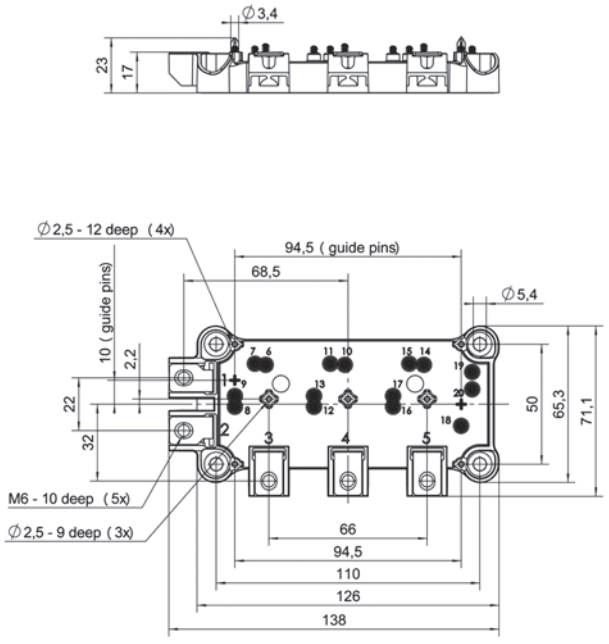
SEMiX 3s



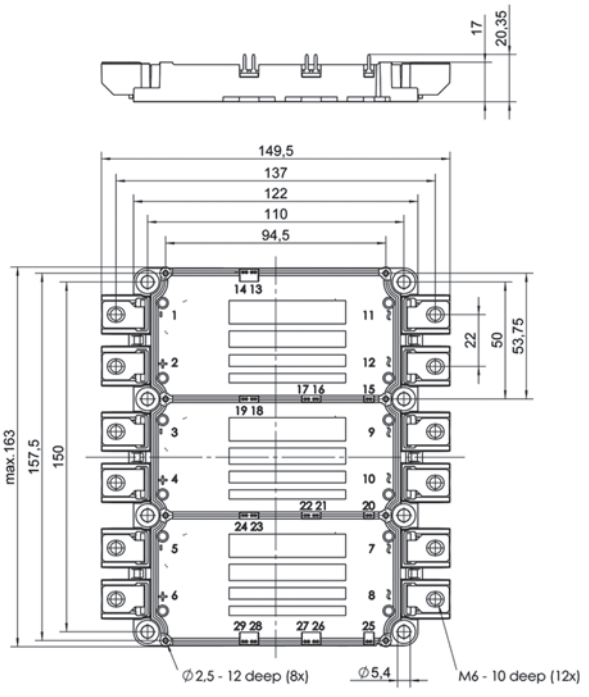
SEMiX 4s



SEMiX 13



SEMiX 33c



Dimensions in mm

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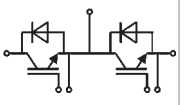
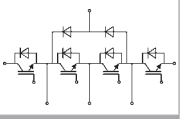
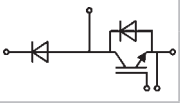
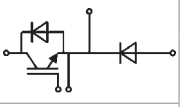
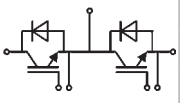
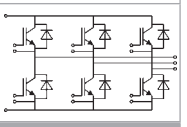
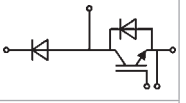
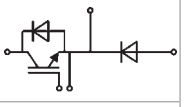
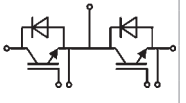
Modules - IGBT - SEMITRANS

Type	IGBT						Diode				Case		Circuit
	I_C @T_C= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-c)}$	I_F @T_C= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-c)}$	Case	$R_{th(c-s)}$	
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W		K/W	
600 V - IGBT 3 (Trench)													
SKM145GB066D	195	150	1.45	8.5	5.5	0.3	150	1.38	3.5	0.5	2	0.05	
SKM195GB066D	265	200	1.45	14	8	0.22	200	1.35	5.6	0.4	2	0.05	
SKM300GB066D	390	300	1.45	7.5	11.5	0.15	350	1.38	10.5	0.25	3	0.038	
SKM400GB066D	500	400	1.45	8	16	0.12	450	1.35	14	0.2	3	0.038	
SKM600GB066D	760	600	1.45	7.5	29.5	0.08	700	1.38	25	0.125	3	0.038	
SKM200GARL066T [1]	280	200	1.45	2.24	7.89	0.21	270	1.45	4	0.39	5	0.038	
SKM300GARL066T [1]	400	300	1.45	3.5	10.1	0.15	400	1.45	4	0.26	5	0.038	
SKM400GARL066T [1]	504	400	1.45	4.48	15.78	0.12	421	1.54	8	0.28	5	0.038	
SKM150MLI066TAT	200	150	1.45	1.7	5.1	0.29	200	1.35	2	0.52	5	0.038	
SKM200MLI066TAT [1]	280	200	1.45	2.53	6.82	0.21	270	1.4	4	0.39	5	0.038	
SKM300MLI066TAT [1]	400	300	1.45	3.5	10.1	0.15	324	1.35	4	0.25	5	0.038	
600 V - NPT IGBT (Standard)													
SKM75GAL063D [2]	100	75	2.1	3	2.5	0.35	75	1.55	0.53	0.72	2	0.05	
SKM300GAL063D [2]	400	300	2.1	14	13	0.09	250	1.65	4	0.25	3	0.038	
SKM75GAR063D [2]	100	75	2.1	3	2.5	0.35	75	1.55	0.53	0.72	2	0.05	
SKM300GAR063D	400	300	2.1	14	13	0.09	250	1.65	4	0.25	3	0.038	
SKM50GB063D [2]	70	50	2.1	2.5	1.8	0.5	75	1.35	0.48	1	2	0.05	
SKM75GB063D [2]	100	75	2.1	3	2.5	0.35	75	1.55	0.53	0.72	2	0.05	
SKM100GB063D [2]	130	100	2.1	4	3	0.27	100	1.55	1.5	0.6	2	0.05	
SKM200GB063D [2]	260	200	2.1	11	7.5	0.14	200	1.55	2.1	0.3	3	0.038	
SKM300GB063D [2]	400	300	2.1	14	13	0.09	250	1.65	4	0.25	3	0.038	
SKM100GD063DL [2]	130	100	2.1	4	3	0.27	100	1.55	1.5	0.6	6	0.05	
1200 V - V-IGBT													
SKM150GAL12V [1]	231	150	1.75	13.5	14.2	0.19	189	2.14	8.9	0.31	2	0.05	
SKM400GAL12V [1]	612	400	1.75	39	42	0.072	440	2.20	26	0.14	3	0.038	
SKM400GAR12V [1]	612	400	1.75	39	42	0.072	440	2.20	26	0.14	3	0.038	
SKM300GA12V [1]	420	300	1.85	23	33	0.11	353	2.17	21	0.17	4	0.038	
SKM400GA12V [1]	612	400	1.75	39	42	0.072	440	2.20	26	0.14	4	0.038	
SKM600GA12V [1]	908	600	1.75	76	76	0.049	707	2.14	43	0.086	4	0.038	
SKM50GB12V [1]	77	50	1.85	5	4	0.53	65	2.22	3.6	0.84	2	0.05	
SKM75GB12V [1]	114	75	1.85	6.7	7.1	0.38	97	2.17	4.2	0.58	2	0.05	
SKM100GB12V [1]	159	100	1.75	10.7	8.7	0.27	121	2.20	5.7	0.48	2	0.05	
SKM150GB12V [1]	231	150	1.75	13.5	14.2	0.19	189	2.14	8.9	0.31	2	0.05	
SKM150GB12VG [1]	222	150	1.85	10	16.5	0.2	187	2.17	11	0.31	3	0.038	
SKM200GB12V [1]	311	200	1.75	14	22	0.14	229	2.20	13	0.26	3	0.038	
SKM300GB12V [1]	420	300	1.85	23	33	0.11	353	2.17	21	0.17	3	0.038	
SKM400GB12V [1]	612	400	1.75	39	42	0.072	440	2.20	26	0.14	3	0.038	

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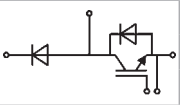
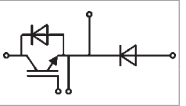
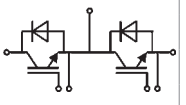
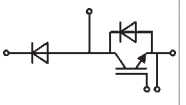
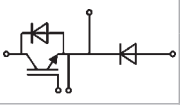
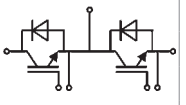
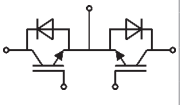
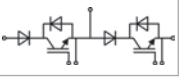
Modules - IGBT - SEMITRANS

Type	IGBT						Diode				Case		Circuit
	I_C @T_C= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-c)}$	I_F @T_C= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-c)}$	Case	$R_{th(c-s)}$	
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W		K/W	
1200 V - IGBT 4 (Trench)													
SKM200GAL12E4HD	313	200	1.8	23	27	0.14	249	1.77	17	0.26	3	0.038	
SKM300GAL12E4HD	422	300	1.85	30	39	0.11	387	1.72	30	0.17	3	0.038	
SKM400GAL12E4HD	616	400	1.8	36	56	0.072	471	1.77	40	0.14	3	0.038	
SKM200GAR12E4HD	313	200	1.8	21	27	0.14	249	1.77	13	0.26	3	0.038	
SKM300GAR12E4HD	422	300	1.85	27	39	0.11	387	1.72	23	0.17	3	0.038	
SKM400GAR12E4HD	616	400	1.8	36	56	0.072	471	1.77	40	0.14	3	0.038	
SKM300GA12E4HD	422	300	1.85	29	35	0.11	387	1.72	29	0.17	4	0.038	
SKM400GA12E4HD	616	400	1.8	31	59	0.072	471	1.77	48	0.14	4	0.038	
SKM600GA12E4HD	913	600	1.8	81	84	0.049	777	1.72	49	0.086	4	0.038	
SKM900GA12E4HD [1]	1305	900	1.83	100	137	0.035	956	1.84	85	0.07	4	0.038	
SKM200GB12E4HD	313	200	1.8	23	27	0.14	249	1.77	17	0.26	3	0.038	
SKM300GB12E4HD	422	300	1.85	30	39	0.11	387	1.72	30	0.17	3	0.038	
SKM400GB12E4HD	616	400	1.8	36	56	0.072	471	1.77	40	0.14	3	0.038	
SKM450GB12E4HD [1]	699	450	1.82	39	61	0.062	471	1.84	43	0.14	3	0.038	
1200 V - IGBT 4 Fast (Trench)													
SKM50GAL12T4 [1]	81	50	1.85	5.5	4.5	0.53	65	2.22	3.6	0.84	2	0.05	
SKM100GAL12T4 [1]	160	100	1.8	15	10.2	0.27	121	2.20	5.9	0.48	2	0.05	
SKM150GAL12T4	232	150	1.8	19.2	15.8	0.19	189	2.14	13	0.31	2	0.05	
SKM200GAL12T4	313	200	1.8	21	20	0.14	229	2.20	13	0.26	3	0.038	
SKM300GAL12T4	422	300	1.85	27	29	0.11	353	2.17	23	0.17	3	0.038	
SKM400GAL12T4	616	400	1.8	33	42	0.072	440	2.20	30.5	0.14	3	0.038	
SKM150GAR12T4	232	150	1.8	19.2	15.8	0.19	189	2.14	13	0.31	2	0.05	
SKM400GAR12T4	616	400	1.8	33	42	0.072	440	2.20	30.5	0.14	3	0.038	
SKM300GA12T4	422	300	1.85	23.4	26	0.11	353	2.17	22.2	0.17	4	0.038	
SKM400GA12T4	616	400	1.8	28	44	0.072	440	2.20	37	0.14	4	0.038	
SKM600GA12T4	913	600	1.8	74	63	0.049	707	2.14	38	0.086	4	0.038	
SKM50GB12T4	81	50	1.85	5.5	4.5	0.53	65	2.22	3.8	0.84	2	0.05	
SKM75GB12T4	115	75	1.85	11	6.9	0.38	97	2.17	4.7	0.58	2	0.05	
SKM100GB12T4	160	100	1.8	15	10.2	0.27	121	2.20	5.9	0.48	2	0.05	
SKM100GB12T4G	154	100	1.85	16.1	8.6	0.29	118	2.22	6	0.49	3	0.038	
SKM150GB12T4	232	150	1.8	19.2	15.8	0.19	189	2.14	13	0.31	2	0.05	
SKM150GB12T4G	223	150	1.85	18.7	14.1	0.2	183	2.17	9	0.32	3	0.038	
SKM200GB12T4	313	200	1.8	21	20	0.14	229	2.20	13	0.26	3	0.038	
SKM300GB12T4	422	300	1.85	27	29	0.11	353	2.17	23	0.17	3	0.038	
SKM400GB12T4	616	400	1.8	33	42	0.072	440	2.20	30.5	0.14	3	0.038	
SKM150GM12T4G [1]	229	150	1.85	19.2	15.8	0.19	187	2.17	13	0.31	3	0.038	
SKM200GM12T4 [1]	313	200	1.8	21	20	0.14	229	2.20	13	0.26	3	0.038	
SKM300GM12T4 [1]	422	300	1.85	27	29	0.11	353	2.17	23	0.17	3	0.038	
SKM400GM12T4 [1]	616	400	1.8	33	42	0.072	440	2.20	30.5	0.14	3	0.038	
SKM300GBD12T4 [1]	422	300	1.85	27	29	0.11	56	2.41	30.5	0.94	3	0.038	

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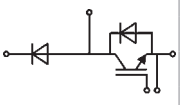
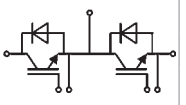
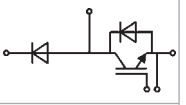
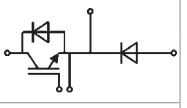
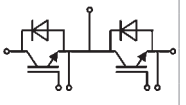
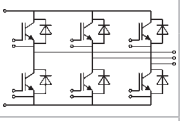
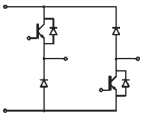
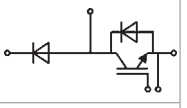
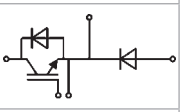
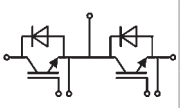
Modules - IGBT - SEMITRANS

Type	IGBT						Diode				Case		Circuit
	I_C @T_C= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-c)}$	I_F @T_C= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-c)}$	Case	$R_{th(c-s)}$	
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W		K/W	
1200 V - IGBT 3 (Trench)													
SKM195GAL126D	220	150	1.7	16	24.5	0.16	170	2.45	5.8	0.32	2	0.05	
SKM200GAL126D	260	150	1.7	18	24	0.13	200	1.64	18	0.3	3	0.038	
SKM400GAL126D	470	300	1.7	29	48	0.08	400	1.64	27	0.18	3	0.038	
SKM600GAL126D	660	400	1.7	39	64	0.055	490	1.67	41	0.125	3	0.038	
SKM600GA126D	660	400	1.7	39	64	0.055	490	1.67	41	0.125	4	0.038	
SKM800GA126D	960	600	1.7	65	95	0.042	680	1.69	59	0.09	4	0.038	
SKM195GB126D	220	150	1.7	16	24.5	0.16	170	2.45	5.8	0.32	2	0.05	
SKM200GB126D	260	150	1.7	18	24	0.13	200	1.64	18	0.3	3	0.038	
SKM300GB126D	310	200	1.7	21	33	0.12	250	1.67	18	0.25	3	0.038	
SKM400GB126D	470	300	1.7	29	48	0.08	400	1.64	27	0.18	3	0.038	
SKM600GB126D	660	400	1.7	39	64	0.055	490	1.67	41	0.125	3	0.038	
1200 V - NPT IGBT (Ultrafast)													
SKM200GAL125D	200	150	3.3	14	8	0.09	200	2.06	8	0.25	3	0.038	
SKM400GAL125D	400	300	3.3	17	18	0.05	390	2.06	16	0.125	3	0.038	
SKM200GAR125D	200	150	3.3	14	8	0.09	200	2.06	8	0.25	3	0.038	
SKM400GAR125D	400	300	3.3	17	18	0.05	390	2.06	16	0.125	3	0.038	
SKM600GA125D	580	400	3.3	30	22	0.041	500	2.00	24	0.09	4	0.038	
SKM800GA125D	760	600	3.2	88	48	0.03	720	2.3	28	0.07	4	0.038	
SKM100GB125DN	100	75	3.3	9	3.5	0.18	95	2.06	4	0.5	2N	0.05	
SKM200GB125D	200	150	3.3	14	8	0.09	200	2.06	8	0.25	3	0.038	
SKM300GB125D	300	200	3.3	16	11	0.075	260	2.00	13	0.18	3	0.038	
SKM400GB125D	400	300	3.3	17	18	0.05	390	2.06	16	0.125	3	0.038	
SKM25GD125D [1]	39	25	3.2	3.9	1.6	0.56	47	2.13	1.1	1	6	0.05	
SKM50GD125D [1]	73	50	3.2	8	3.2	0.32	77	2.00	2.1	0.6	6	0.05	
SKM25GAH125D [1]	39	25	3.2	3.9	1.6	0.56	47	2.13	1.1	1	6	0.05	
1700 V - IGBT 3 (Trench)													
SKM145GAL176D	160	100	2	60	38	0.19	140	1.6	27.5	0.36	2	0.05	
SKM200GAL176D	260	150	2	93	58	0.12	210	1.55	31	0.25	3	0.038	
SKM400GAL176D	432	300	2	170	118	0.075	440	1.55	78	0.125	3	0.038	
SKM400GAR176D	432	300	2	170	118	0.075	440	1.55	78	0.125	3	0.038	
SKM600GA176D	660	400	2	255	155	0.044	600	1.6	102	0.09	4	0.038	
SKM800GA176D	830	600	2	335	245	0.04	630	1.6	155	0.07	4	0.038	
SKM75GB176D	80	50	2	25	18	0.38	80	1.50	14.5	0.55	2	0.05	
SKM100GB176D	125	75	2	44	28.5	0.24	100	1.6	21.4	0.45	2	0.05	
SKM145GB176D	160	100	2	60	38	0.19	140	1.6	27.5	0.36	2	0.05	
SKM200GB176D	260	150	2	93	58	0.12	210	1.55	31	0.25	3	0.038	
SKM400GB176D	432	300	2	170	118	0.075	440	1.55	78	0.125	3	0.038	

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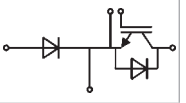
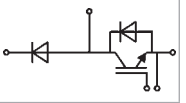
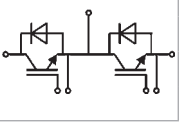
Modules - IGBT - SEMITRANS

Type	IGBT						Diode				Case		Circuit
	I_C @T_C= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-c)}$	I_F @T_C= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-c)}$	Case	$R_{th(c-s)}$	
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W		K/W	
1700 V - NPT IGBT (Standard)													
SKM200GAR173D [2]	220	150	3.4	95	45	0.1	150	2.2	21	0.32	3	0.038	
SKM200GAL173D [2]	220	150	3.4	95	45	0.1	150	2.2	21	0.32	3	0.038	
SKM400GA173D [2]	440	300	3	180	10	0.05	300	2.2	46	0.17	4	0.038	
SKM75GB173D [2]	75	50	3.4	18	13	0.25	60	2.2	10.5	0.75	2	0.05	
SKM100GB173D [2]	110	75	3.4	35	21	0.2	80	2.2	11.5	0.63	2	0.05	
SKM150GB173D [2]	150	100	3.4	60	32	0.125	125	2.2	14	0.4	3	0.038	
SKM200GB173D [2]	220	150	3.4	95	45	0.1	150	2.2	21	0.32	3	0.038	

Footnotes

[1] New

[2] Not for New Design

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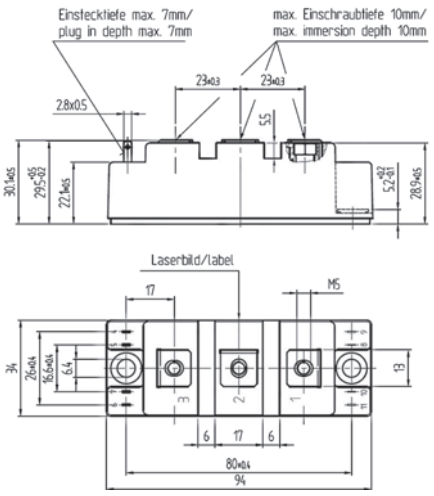
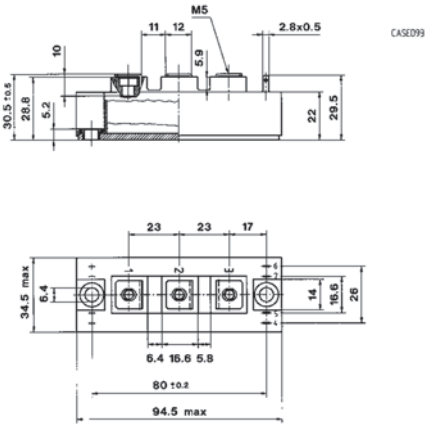
Modules - IGBT - SEMITRANS

Cases

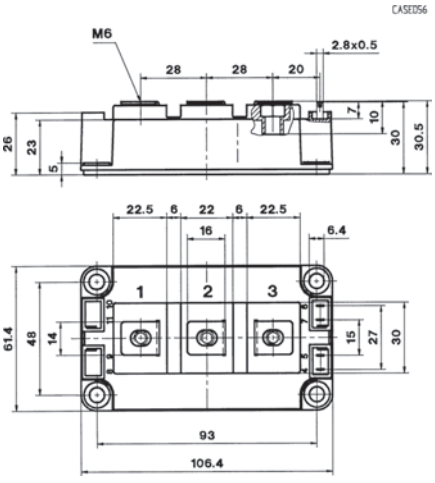
SEMITRANS 2



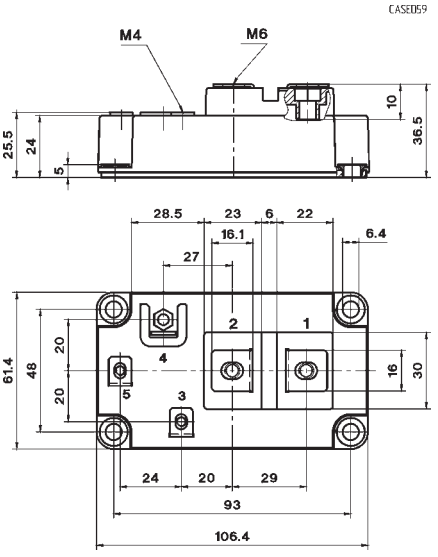
SEMITRANS 2N



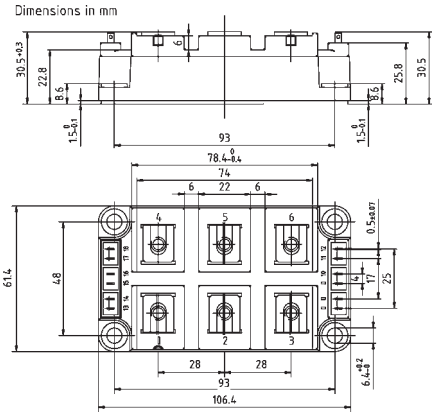
SEMITRANS 3



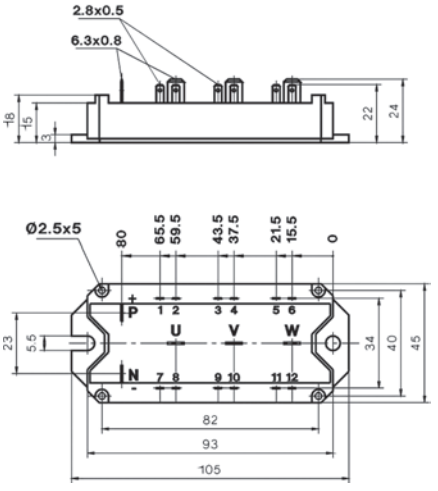
SEMITRANS 4



SEMITRANS 5



SEMITRANS 6



Dimensions in mm

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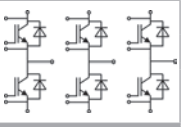
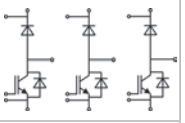
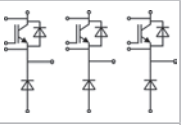
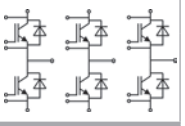
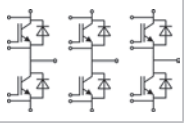
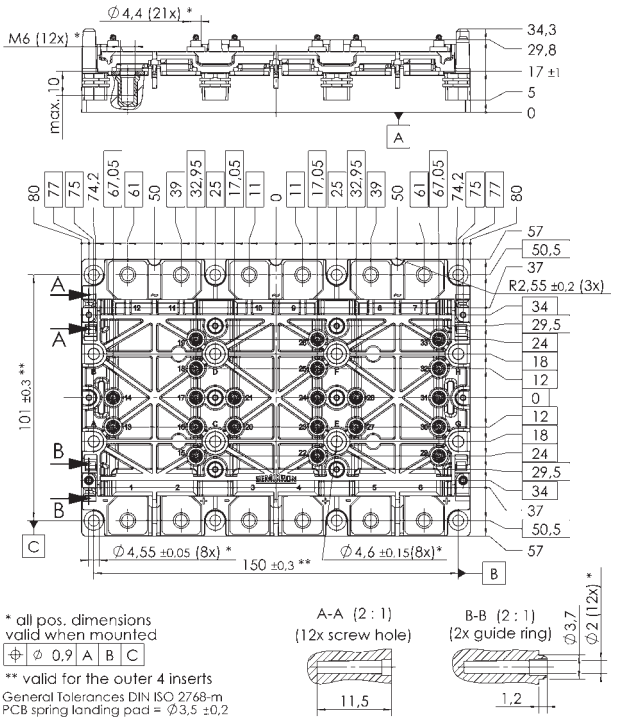
Modules - IGBT - SKiM 63/93

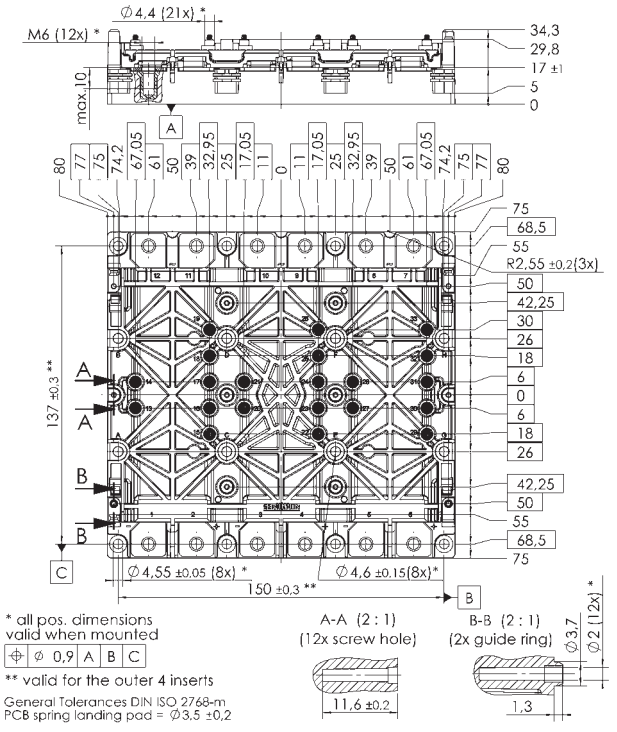
Type	IGBT						Diode				Case	Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W		
600 V - IGBT 3 (Trench)												
SKiM406GD066HD	468	400	1.45	8	25	0.135	360	1.5	12	0.243	63	
SKiM606GD066HD	641	600	1.45	16	53	0.105	453	1.6	21	0.201	63	
SKiM909GD066HD	899	900	1.45	36	88	0.078	712	1.5	29	0.135	93	
1200 V - IGBT 4 (Trench)												
SKiM609GAL12E4	748	600	1.85	136	83	0.068	1397	1.7	39	0.048	93	
SKiM609GAR12E4	748	600	1.85	136	83	0.068	1397	1.7	39	0.048	93	
SKiM306GD12E4	410	300	1.85	19	39	0.116	302	2.1	21	0.218	63	
SKiM459GD12E4	554	450	1.85	22	57	0.092	438	2.1	40	0.155	93	
1700 V - IGBT 4 (Trench)												
SKiM429GD17E4HD	595	420	1.9	245	180	0.079	413	1.7	99	0.169	93	

Cases

SKiM 63



SKiM 93



Dimensions in mm

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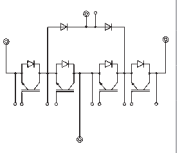
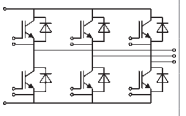
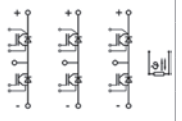
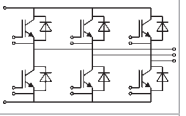
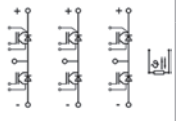
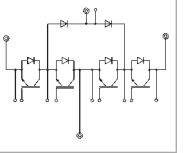
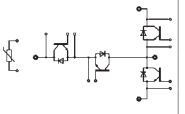
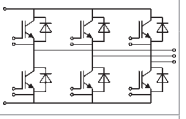
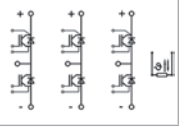
Modules - IGBT - SKiM 4/5

Type	IGBT						Diode				Case	Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W		
650 V - IGBT 3 (Trench)												
SKiM201MLI07E4	190	200	1.45	-	-	-	-	-	-	-	4	
SKiM301MLI07E4	256	300	1.45	-	-	-	-	-	-	-	4	
SKiM401MLI07E4	317	400	1.45	3.32		-	-	-	1.8	-	4	
SKiM601MLI07E4	438	600	1.45	5.49		-	-	-	2.4	-	4	
1200 V - IGBT 3 (Trench)												
SKiM200GD126D	-	200	1.65	15	25	-	152	2.4	-	0.35	4	
SKiM300GD126D	265	300	1.7	28	47	0.2	260	1.9	-	0.285	4	
SKiM300GD126DL	265	300	1.65	28	47	0.2	260	1.9	-	0.285	4	
SKiM400GD126DLM	330	300	1.65	29	46	0.134	300	1.9	-	0.19	4	
SKiM400GD126DM	330	300	1.7	29	46	0.134	300	1.9	-	0.19	4	
SKiM450GD126D	390	450	1.7	42	70	0.13	345	1.9	-	0.19	5	
SKiM450GD126DL	390	450	1.65	42	70	0.13	345	1.9	-	0.19	5	
SKiM600GD126DLM	480	450	1.65	42	70	0.09	450	1.9	-	0.125	5	
SKiM601GD126DM	480	450	1.7	42	70	0.09	450	1.9	-	0.125	5	
1200 V - IGBT 4 (Trench)												
SKiM304GD12T4D	312	300	1.8	-	-	0.19	221	2.3	-	0.25	4	
SKiM455GD12T4D1	400	450	1.8	34	40	0.14	295	2.3	28	0.19	5	
SKiM455GD12T4DM1	460	450	1.8	34	40	0.11	390	2.3	28	0.12	5	
SKiM201MLI12E4	225	200	1.8	23.7		-	180	2.2		-	4	
SKiM301MLI12E4	312	300	1.8	23.7		-	253	2.1		-	4	
SKiM301TMLI12E4B	311	300	1.8	23.7		0.19	249	2.20	-	0.29	4	
SKiM301TMLI12E4C	311	300	1.8	23.7		0.19	249	2.20	-	0.29	4	
SKiM401TMLI12E4B	388	400	1.8	8.83		0.16	311	2.20	2.26	0.24	4	
SKiM601TMLI12E4B	542	600	1.8			0.12	438	2.14	3.45	0.18	4	
1700 V - IGBT 3 (Trench)												
SKiM120GD176D	110	125	2	72	46	0.4	105	1.6	22	0.56	4	
SKiM220GD176DH4	220	250	2	145	100	0.21	220	1.7	65	0.26	4	
SKiM270GD176D	260	300	2	170	120	0.175	215	1.7	-	0.29	5	

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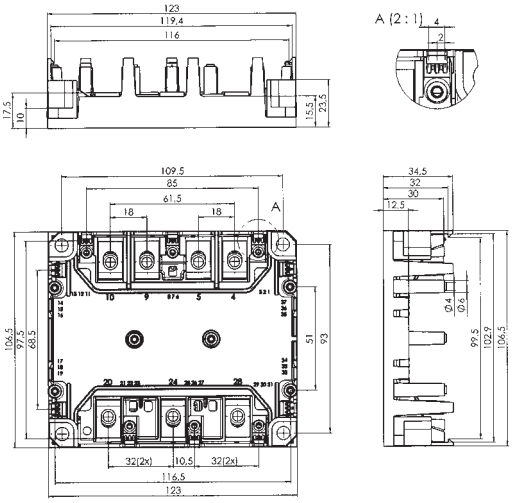
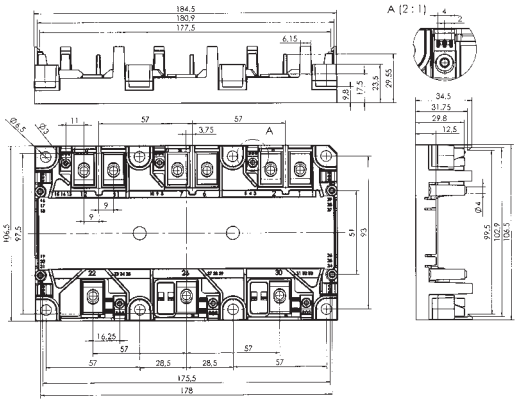
Modules - IGBT - SKiM 4/5

Cases

SKiM 4



SKiM 5



Dimensions in mm

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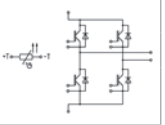
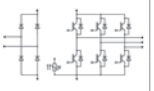
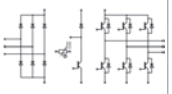
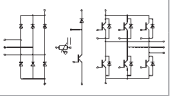
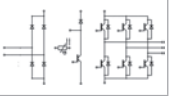
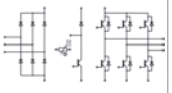
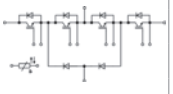
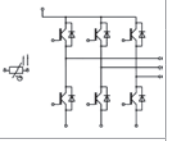
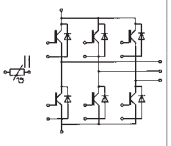
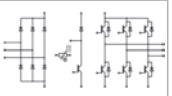
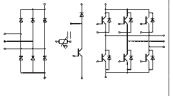
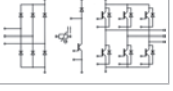
Modules - IGBT - MiniSKiiP

Type	IGBT						Diode				Rectifier			Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$	I_{FSM} @T_S= 25°C	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W	A	K/W		
600 V - IGBT 3 (Trench)														
SKiiP 16GH066V1	65	50	1.45	1.7	1.7	0.95	56	1.50	1.3	1.6	-	-	II 1	
SKiiP 27GH066V1	88	75	1.45	2.7	3	0.75	77	1.50	1.8	1.2	-	-	II 2	
SKiiP 28GH066V1	112	100	1.45	3.4	3.5	0.6	112	1.30	3.3	0.8	-	-	II 2	
SKiiP 01NEC066V3	12	6	1.45	0.3	0.2	2.4	12	1.30	0.2	3	220	1.5	II 0	
SKiiP 02NEC066V3	20	10	1.45	0.5	0.3	2	20	1.30	0.5	2.5	220	1.5	II 0	
SKiiP 03NEC066V3	27	15	1.45	0.6	0.5	1.8	28	1.40	0.5	2.5	220	1.5	II 0	
SKiiP 12NAB066V1	20	10	1.45	0.5	0.3	2	20	1.30	0.5	2.5	220	1.5	II 1	
SKiiP 13NAB066V1	27	15	1.45	0.6	0.5	1.8	28	1.40	0.5	2.5	220	1.5	II 1	
SKiiP 14NAB066V1	33	20	1.45	0.75	0.7	1.6	31	1.60	0.55	2.5	220	1.5	II 1	
SKiiP 25NAB066V1	43	30	1.45	0.9	1.2	1.35	39	1.50	1.1	2.1	370	1.5	II 2	
SKiiP 26NAB066V1	65	50	1.45	1.6	1.6	0.95	56	1.50	1.3	1.6	370	1.5	II 2	
SKiiP 25NEB066V1	43	30	1.45	0.9	1.2	1.35	39	1.50	1.1	2.1	370	1.5	II 2	
600 V - NPT IGBT (Ultrafast)														
SKiiP 11NAB065V1 [2]	12	6	2	0.3	0.2	1.9	12	1.30	0.2	2.5	220	1.5	II 1	
SKiiP 12NAB065V1 [2]	20	10	2	0.3	0.3	1.5	20	1.40	0.2	2.5	220	1.5	II 1	
SKiiP 13NAB065V1 [2]	24	15	2	0.6	0.3	1.4	26	1.40	0.4	2.2	220	1.5	II 1	
SKiiP 14NAB065V1 [2]	29	20	2	0.7	0.4	1.25	26	1.60	0.4	2.2	370	1.25	II 1	
650 V - IGBT 3 (Trench)														
SKiiP 26MLI07E3V1 [1]	-	75	1.45	-	-	-	-	1.5	-	-	-	-	II 2	
SKiiP 27MLI07E3V1 [1]	-	100	1.45	-	-	-	-	1.4	-	-	-	-	II 2	
SKiiP 28MLI07E3V1 [1]	-	150	1.45	-	-	-	-	1.4	-	-	-	-	II 2	
SKiiP 39MLI07E3V1 [1]	-	200	1.45	-	-	-	-	1.4	-	-	-	-	II 3	
1200 V - IGBT 3 (Trench)														
SKiiP 11AC126V1 [2]	16	8	1.7	0.9	1	1.5	14	1.90	0.9	2.5	-	-	II 1	
SKiiP 12AC126V1 [2]	28	15	1.7	1.7	1.9	1.15	26	1.60	1.2	1.95	-	-	II 1	
SKiiP 13AC126V1 [2]	41	25	1.7	4.1	3.1	0.9	30	1.80	2.2	1.7	-	-	II 1	
SKiiP 23AC126V1 [2]	41	25	1.7	3.7	3.1	0.9	30	1.80	2.6	1.7	-	-	II 2	
SKiiP 24AC126V1 [2]	52	35	1.7	4.2	4.4	0.75	38	1.80	3.5	1.5	-	-	II 2	
SKiiP 25AC126V1 [2]	73	50	1.7	5.8	6.5	0.55	62	1.60	5.1	1	-	-	II 2	
SKiiP 26AC126V1 [2]	88	70	1.7	9	7.7	0.5	91	1.50	7.5	0.7	-	-	II 2	
SKiiP 37AC126V2 [2]	97	75	1.7	9.6	8.7	0.45	90	1.60	9.6	0.7	-	-	II 3	
SKiiP 38AC126V2 [2]	118	105	1.7	13.1	13	0.4	118	1.60	11.2	0.55	-	-	II 3	
SKiiP 39AC126V2 [2]	157	140	1.7	19.9	17.2	0.3	167	1.50	16.2	0.4	-	-	II 3	
SKiiP 11NAB126V1 [2]	16	8	1.7	0.8	1	1.5	14	1.90	0.9	2.5	220	1.5	II 1	
SKiiP 12NAB126V1 [2]	28	15	1.7	2	1.9	1.15	26	1.60	1.3	1.95	220	1.5	II 1	
SKiiP 23NAB126V1 [2]	41	25	1.7	3.5	3	0.9	30	1.80	2.5	1.7	370	1.25	II 2	
SKiiP 23NAB126V10 [2]	41	25	1.7	3.5	3	0.9	30	1.80	2.5	1.7	635	0.9	II 2	
SKiiP 24NAB126V1 [2]	52	35	1.7	4.6	4	0.75	38	1.80	3.3	1.5	370	1.25	II 2	
SKiiP 24NAB126V10 [2]	52	35	1.7	4.6	4	0.75	38	1.80	3.3	1.5	635	0.9	II 2	
SKiiP 35NAB126V1 [2]	73	50	1.7	6.5	6.1	0.55	62	1.60	4.7	1	700	0.9	II 3	
SKiiP 36NAB126V1 [2]	88	70	1.7	9	7.7	0.5	91	1.50	7.5	0.7	700	0.9	II 3	

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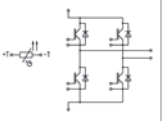
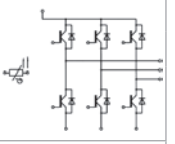
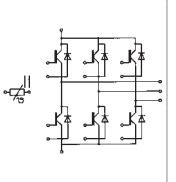
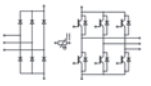
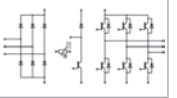
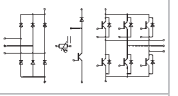
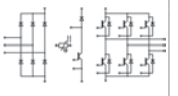
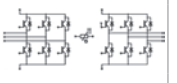
Modules - IGBT - MiniSKiiP

Type	IGBT						Diode				Rectifier			Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$	I_{FSM} @T_S= 25°C	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W	A	K/W		
1200 V - IGBT 4 (Trench)														
SKiiP 26GH12T4V11	90	70	1.85	9.5	7.1	0.55	83	2.1	5.6	0.75	-	-	II 2	
SKiiP 11AC12T4V1	12	8	1.85	0.87	0.75	1.84	15	2.3	0.53	2.53	-	-	II 1	
SKiiP 12AC12T4V1	18	15	1.85	1.65	1.5	1.3	23	2.4	0.79	1.92	-	-	II 1	
SKiiP 13AC12T4V1	41	25	1.85	3.7	2.4	1	32	2.4	1.64	1.52	-	-	II 1	
SKiiP 23AC12T4V1	41	25	1.85	3.7	2.4	1	32	2.4	1.64	1.52	-	-	II 2	
SKiiP 24AC12T4V1	52	35	1.85	3.7	3	0.85	44	2.3	2.3	1.2	-	-	II 2	
SKiiP 25AC12T4V1	69	50	1.85	6	4.5	0.71	60	2.2	3.2	0.95	-	-	II 2	
SKiiP 26AC12T4V1	90	70	1.85	9.5	7.1	0.55	83	2.2	5.6	0.75	-	-	II 2	
SKiiP 37AC12T4V1	90	75	1.85	11.5	6.8	0.58	83	2.2	5.5	0.75	-	-	II 3	
SKiiP 38AC12T4V1	115	100	1.8	13.7	9.7	0.48	100	2.2	6.5	0.66	-	-	II 3	
SKiiP 39AC12T4V1	167	150	1.85	22.5	14	0.33	136	2.1	11.4	0.52	-	-	II 3	
SKiiP 02NAC12T4V1	6	4	1.85	0.66	0.37	2.49	7.5	1.8	0.34	2.53	220	1.5	II 0	
SKiiP 03NAC12T4V1	7.5	8	1.85	0.9	0.7	1.84	9	2.3	0.5	2.53	220	1.5	II 0	
SKiiP 10NAB12T4V1	6	4	1.85	0.66	0.37	2.49	7.5	1.8	0.34	2.53	220	1.5	II 1	
SKiiP 11NAB12T4V1	12	8	1.85	0.87	0.74	1.84	15	2.3	0.57	2.53	220	1.5	II 1	
SKiiP 12NAB12T4V1	18	15	1.85	1.4	1.3	1.3	23	2.40	1.1	1.92	220	1.5	II 1	
SKiiP 23NAB12T4V1	37	25	1.85	2.65	2.3	1.2	32	2.40	1.6	1.52	370	1.25	II 2	
SKiiP 24NAB12T4V1	48	35	1.85	4.3	3.25	1	44	2.3	2.4	1.2	370	1.25	II 2	
SKiiP 34NAB12T4V1	52	35	1.85	4.3	3.3	0.85	44	2.3	2.4	1.2	370	1.25	II 3	
SKiiP 35NAB12T4V1	69	50	1.85	6	4.7	0.71	60	2.25	3.4	0.95	700	0.9	II 3	
SKiiP 37NAB12T4V1	90	75	1.85	9.7	6.8	0.58	83	2.2	4.9	0.75	700	0.9	II 3	
SKiiP 38NAB12T4V1	115	100	1.8	11.2	10	0.48	99	2.2	6.5	0.66	1000	0.7	II 3	
SKiiP 11ACC12T4V10 [1]	12	8	1.85	0.87	0.74	1.84	15	2.3	0.57	2.53	-	-	II 1	
SKiiP 12ACC12T4V10 [1]	18	15	1.85	1.73	1.42	1.3	23	2.4	1.1	1.92	-	-	II 1	
SKiiP 23ACC12T4V10 [1]	41	25	1.85	2.8	2.3	1	32	2.4	1.7	1.52	-	-	II 2	
SKiiP 24ACC12T4V10 [1]	52	35	1.85	4.2	3.1	0.85	44	2.3	2.2	1.2	-	-	II 2	

Footnotes

1) New

2) Not for New Design

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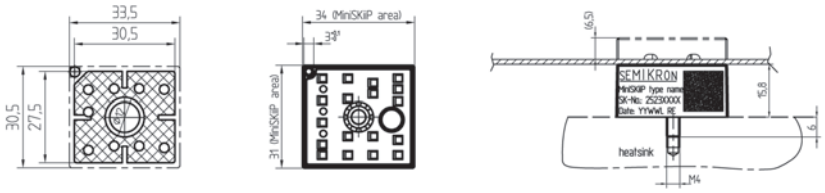
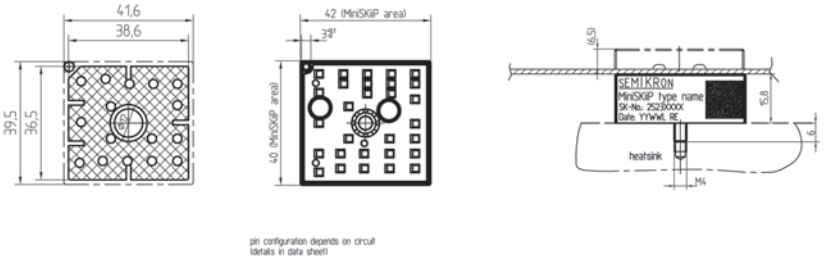
Modules - IGBT - MiniSKiiP

Cases

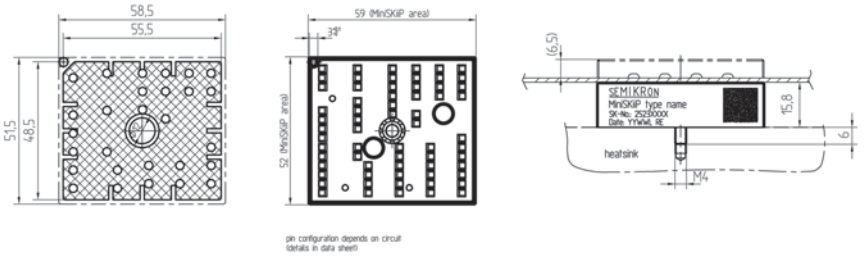
MiniSKiiP II 0



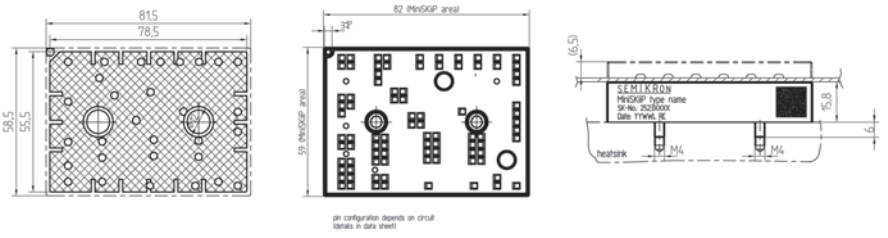
MiniSKiiP II 1



MiniSKiiP II 2



MiniSKiiP II 3



Dimensions in mm

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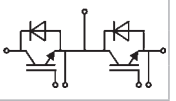
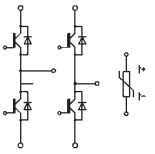
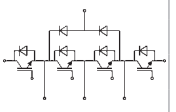
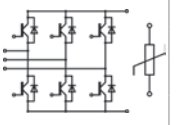
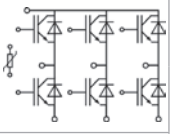
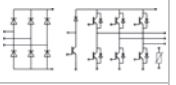
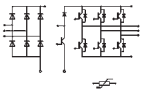
Modules - IGBT - SEMITOP

Type	IGBT						Diode				Rectifier		Case	Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$	I_{FSM} @T_S= 25°C	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W	A	K/W		
600 V - IGBT 3 (Trench)														
SK 75 GB 066 T	77	75	1.45	3.1	2.8	0.94	62	1.35	0.85	1.55	-	-	3	
SK 100 GB 066 T	96	100	1.45	7	6	0.78	108	1.35	1.7	0.91	-	-	3	
SK 150 GB 066 T	124	150	1.45	6.25	5.7	0.55	135	1.35	1.7	0.73	-	-	3	
SK 30 GBB 066 T	40	30	1.45	0.97	1.77	1.65	36	1.45	0.26	2.1	-	-	3	
SK 50 GBB 066 T	60	50	1.45	2.2	1.73	1.11	56	1.50	0.72	1.7	-	-	3	
SK 75 GBB 066 T	77	75	1.45	3.1	2.8	0.94	77	1.35	0.85	1.55	-	-	3	
SK 20 MLI 066	30	20	1.45	0.4	1.07	1.95	30	1.60	0.2	2.46	-	-	3	
SK 30 MLI 066	40	30	1.45	0.97	1.77	1.65	37	1.50	0.26	2.3	-	-	3	
SK 50 MLI 066	60	50	1.45	1.46	2.02	1.11	56	1.50	1.07	1.7	-	-	3	
SK 75 MLI 066 T	83	75	1.45	1.7	2.8	0.75	92	1.50	1.1	1.2	-	-	4	
SK 100 MLI 066 T	105	100	1.45	2.5	4.2	0.65	110	1.35	1.9	0.9	-	-	4	
SK 150 MLI 066 T	151	150	1.45	2.7	5.9	0.55	115	1.50	2.6	0.72	-	-	4	
SK 75 GD 066 T	83	75	1.45	3.1	2.8	0.75	92	1.35	0.85	1.2	-	-	4	
SK 100 GD 066 T	105	100	1.45	7	6	0.65	99	1.30	1.7	0.8	-	-	4	
SK 150 GD 066 T	151	150	1.45	6.25	5.7	0.55	198	1.30	1.7	0.54	-	-	4	
SK 200 GD 066 T	174	200	1.45	13.9	12	0.45	99	1.30	3.4	0.8	-	-	4	
SK 20 GD 066 ET	30	20	1.45	0.34	0.63	1.95	31	1.45	0.2	2.46	-	-	3	
SK 30 GD 066 ET	40	30	1.45	0.97	1.77	1.65	36	1.45	0.26	2.1	-	-	3	
SK 50 GD 066 ET	60	50	1.45	2.2	1.73	1.11	56	1.50	0.72	1.7	-	-	3	
SK 20 DGDL 066 ET	30	20	1.45	0.3	0.6	1.95	27	1.40	0.2	2.46	220	2.15	3	
SK 30 DGDL 066 ET	40	30	1.45	0.55	1.15	1.65	36	1.50	0.53	2.3	370	1.7	3	
SK 50 DGDL 066 T	69	50	1.45	2.2	1.74	0.95	54	1.35	0.73	1.6	370	1.5	4	
SK 75 DGDL 066 T	81	75	1.45	3.1	2.8	0.75	64	1.35	0.9	1.2	700	0.9	4	
SK 100 DGDL 066 T	106	100	1.45	4.4	3.5	0.65	99	1.10	1.45	0.8	700	0.9	4	

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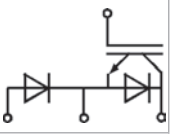
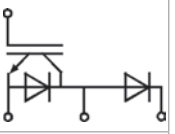
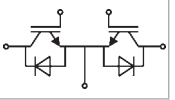
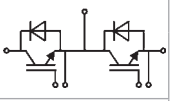
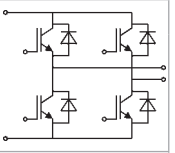
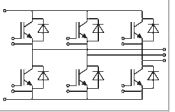
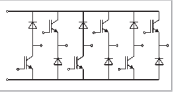
Modules - IGBT - SEMITOP

Type	IGBT						Diode				Rectifier		Case	Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$	I_{FSM} @T_S= 25°C	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W	A	K/W		
600 V - NPT IGBT (Standard)														
SK 45 GAR 063 [2]	45	50	2.1	1.4	1.2	1	57	1.45	0.25	1.2	-	-	2	
SK 45 GAL 063 [2]	45	50	2.1	1.4	1.2	1	57	1.45	0.25	1.2	-	-	2	
SK 80 GM 063 [2]	81	100	2	3	2.3	0.6	105	1.30	0.2	1.2	-	-	2	
SK 45 GB 063 [2]	45	50	2.1	1.4	1.2	1	57	1.45	0.25	1.2	-	-	2	
SK 80 GB 063 [2]	81	100	2.1	4	3	0.6	79	1.40	1.2	0.9	-	-	3	
SK 15 GH 063 [2]	20	15	2	0.71	0.4	1.9	20	1.45	0.45	1.2	-	-	2	
SK 25 GH 063 [2]	30	30	2.1	1.1	0.8	1.4	36	1.45	0.25	1.7	-	-	2	
SK 45 GH 063 [2]	45	50	2.1	1.4	1.2	1	57	1.30	0.9	1.2	-	-	3	
SK 13 GD 063 [2]	18	10	2.1	0.6	0.4	2	22	1.45	0.1	2.3	-	-	3	
SK 25 GD 063 [2]	30	30	2.1	1.3	0.9	1.4	36	1.45	0.25	1.7	-	-	3	
SK 45 GD 063 [2]	45	50	2.1	1.4	1.2	1	36	1.45	0.25	1.7	-	-	3	
SK 25 GAD 063 T [2]	30	30	2.1	1.3	0.9	1.4	36	1.45	0.25	1.7	-	-	3	

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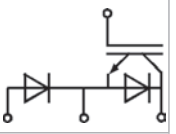
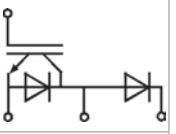
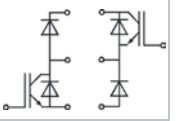
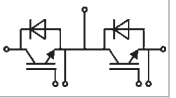
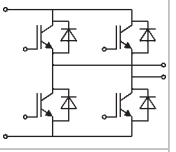
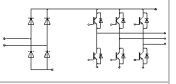
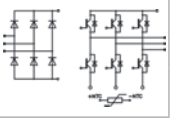
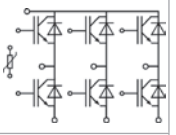
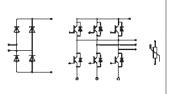
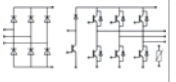
Modules - IGBT - SEMITOP

Type	IGBT						Diode				Rectifier		Case	Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$	I_{FSM} @T_S= 25°C	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W	A	K/W		
600 V - NPT IGBT (Ultrafast)														
SK 50 GAR 065	54	60	2	1.1	0.7	0.85	57	1.30	0.2	1.2	-	-	2	
SK 50 GAL 065	54	60	2	1.1	0.7	0.85	57	1.30	0.2	1.2	-	-	2	
SK 55 GARL 065 E	54	60	1.7	1.1	0.76	0.85	36	1.45	0.9	1.7	-	-	3	
SK 75 GARL 065 E	80	90	1.7	2.71	2.75	0.6	57	1.30	0.2	1.2	-	-	3	
SK 50 GB 065	54	60	2	1.1	0.7	0.85	64	1.45	0.55	1.1	-	-	2	
SK 50 GARL 065 F	54	60	1.7	1.03	0.8	0.85	82	1.70	-	2.3	-	-	2	
SK 50 GARL 065 USA	54	60	1.7	1.07	0.76	0.85	64	1.40	-	2.3	-	-	2	
SK 50 GH 065 F	54	60	2	1.07	1.76	0.85	82	1.10	0.42	1.1	-	-	3	
SK 8 BGD 065 E [2]	12	6	2	0.22	0.12	2.6	13	1.35	-	2.7	220	2.15	2	
SK 9 DGD 065 ET	12	6	2	0.22	0.12	2.6	20	1.35	0.31	2.7	220	2.15	3	
SK 20 DGD 065 ET	26	20	2	0.66	0.4	1.7	25	1.60	-	1.7	370	1.7	3	
SK 25 DGD 065 ET [2]	30	20	1.8	0.8	0.55	1.4	36	1.45	-	1.7	370	1.7	3	
SK 35 GD 065 ET	45	50	2	1.3	0.6	1	36	1.90	0.9	1.7	-	-	3	
SK 10 BGD 065 ET	17	6	2	0.18	0.13	2	22	1.30	0.18	2.3	220	2.7	3	
SK 9 BGD 065 ET	12	6	2	0.22	0.12	2.6	20	1.35	0.31	2.7	220	2.15	3	
SK 10 DGDL 065 ET	17	6	2	0.18	0.13	2	22	1.30	0.18	2.3	220	2.7	3	
SK 8 DGDL 065 ET [2]	12	6	2	0.22	0.12	2.6	13	1.35	-	2.7	-	2.8	3	
SK 15 DGDL 065 ET [2]	19	10	2	0.3	0.22	1.9	22	1.40	0.24	2.3	220	2.7	3	
SK 20 DGDL 065 ET	24	20	2	0.69	0.39	1.7	25	1.60	-	1.7	220	2	3	

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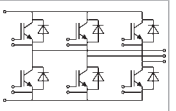
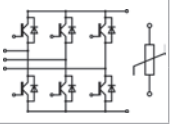
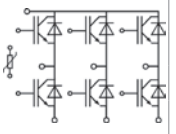
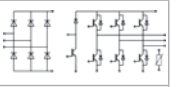
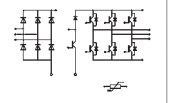
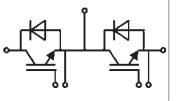
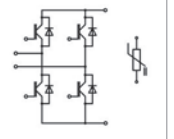
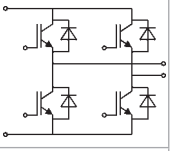
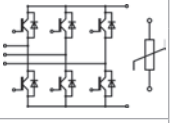
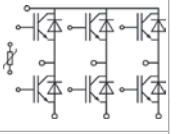
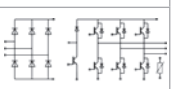
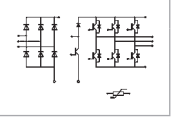
Беларусь г.Минск тел./факс 8(017)200-56-46 www.fotorele.net e:mail minsk17@tut.by

Modules - IGBT - SEMITOP

Type	IGBT						Diode				Rectifier		Case	Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$	I_{FSM} @T_S= 25°C	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W	A	K/W		
1200 V - IGBT 3 (Trench)														
SK 8 GD 126 [2]	15	8	1.7	0.78	0.96	2	13	1.90	20.6	2.8	-	-	2	
SK 50 GD 126 T	68	50	1.7	4.6	6.3	0.6	62	1.35	3.6	1	-	-	4	
SK 75 GD 126 T	88	75	1.7	11.3	10	0.5	91	1.46	6	0.7	-	-	4	
SK 100 GD 126 T	114	100	1.7	9.8	11.7	0.4	118	1.50	7.3	0.55	-	-	4	
SK 10 GD 126 ET	15	8	1.7	1	1	2	25	1.90	1.4	2.1	-	-	3	
SK 15 GD 126 ET	22	15	1.7	2	1.8	1.6	25	1.60	1.4	2.1	-	-	3	
SK 25 GD 126 ET	32	25	1.7	3.3	3.1	1.2	28	1.80	2.1	1.9	-	-	3	
SK 35 GD 126 ET	40	35	1.7	4.6	4.3	1.05	34	1.80	2.9	1.7	-	-	3	
SK 10 DGDL 126 ET	15	8	1.7	1	1	2	25	1.90	1.4	2.1	220	2.7	3	
SK 15 DGDL 126 ET	22	15	1.7	2	1.8	1.6	25	1.60	1.1	2.1	220	2	3	
SK 25 DGDL 126 T	41	25	1.7	2.8	3.1	0.9	30	1.50	2	1.7	370	1.5	4	
SK 35 DGDL 126 T	52	35	1.7	3.7	4.8	0.75	38	1.50	3	1.5	370	1.25	4	
SK 50 DGDL 126 T	68	50	1.7	4.6	6.3	0.6	62	1.35	3.6	1	700	0.9	4	
1200 V - IGBT 4 (Trench)														
SK 25 GB 12T4	37	25	1.85	2.27	2.7	1.31	30	2.40	1.28	1.91	-	-	2	
SK 35 GB 12T4	44	35	1.85	3.27	3.3	1.21	40	2.30	1.46	1.55	225	-	2	
SK 50 GB 12T4 T	71	50	1.85	8.3	5	0.9	50	2.20	2.15	1.24	-	-	3	
SK 75 GB 12T4 T	80	75	1.85	13.6	8.2	0.74	70	2.10	3.39	0.97	-	-	3	
SK 100 GB 12T4 T	100	100	1.85	16.6	10	0.6	85	2.25	5.2	0.87	-	-	3	
SK 50 GH 12T4 T	75	50	1.8	8.3	5	0.65	56	2.20	2.15	1.05	-	-	4	
SK 100 GH 12T4 T	126	100	1.8	16.6	10	0.43	102	2.20	5.2	0.62	-	-	4	
SK 25 GH 12T4 [1]	-	25	1.85	2.27	2.7	1.11	26	2.41	1.28	2.15	-	-	3	
SK 50 GD 12T4 T	75	50	1.85	8.3	5	0.65	60	2.20	2.15	0.97	-	-	4	
SK 75 GD 12T4 T	102	75	1.85	13.6	8.2	0.51	83	2.20	3.38	0.75	-	-	4	
SK 100 GD 12T4 T	126	100	1.85	16.6	10	0.43	102	2.25	5.2	0.62	-	-	4	
SK 10 GD 12T4 ET	17	8	1.85	0.41	0.76	2.2	15	2.38	0.41	2.7	-	-	3	
SK 15 GD 12T4 ET	27	15	1.85	0.83	1.52	1.65	21	2.38	0.82	2.34	-	-	3	
SK 25 GD 12T4 ET	37	25	1.85	2.27	2.7	1.31	30	2.40	1.28	1.91	-	-	3	
SK 35 GD 12T4 ET	44	35	1.85	3.27	3.3	1.21	40	2.30	1.46	1.55	-	-	3	
SK 10 DGDL 12T4 ET	17	8	1.85	0.41	0.75	2.2	15	2.38	0.41	2.7	220	2	3	
SK 15 DGDL 12T4 ET	27	15	1.85	0.82	1.52	1.65	21	2.38	0.82	2.34	220	2	3	
SK 25 DGDL 12T4 T	45	25	1.85	2.27	2.7	0.96	30	2.40	-	1.7	370	1.25	4	
SK 35 DGDL 12T4 T	58	35	1.85	3.27	3.3	0.8	46	2.30	1.46	1.37	370	1.25	4	
SK 50 DGDL 12T4 T	75	50	1.85	8.3	5	0.65	60	2.22	2.15	0.97	700	0.9	4	

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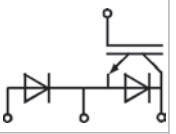
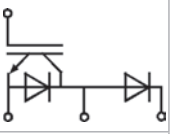
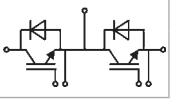
Modules - IGBT - SEMITOP

Type	IGBT						Diode				Rectifier		Case	Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$	I_{FSM} @T_S= 25°C	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W	A	K/W		
1200 V - NPT IGBT (Ultrafast)														
SK 60 GAR 125	51	50	3.2	8.36	3.32	0.6	43	2.00	2	1.16	-	-	2	
SK 60 GAL 125	51	50	3.2	8.36	3.32	0.6	43	2.00	2	1.16	-	-	2	
SK 60 GB 125	51	50	3.2	8.36	3.32	0.6	57	-	2	0.9	-	-	3	
SK 80 GB 125 T	85	75	3.2	9.9	5	0.32	90	2.00	1	0.65	-	-	3	

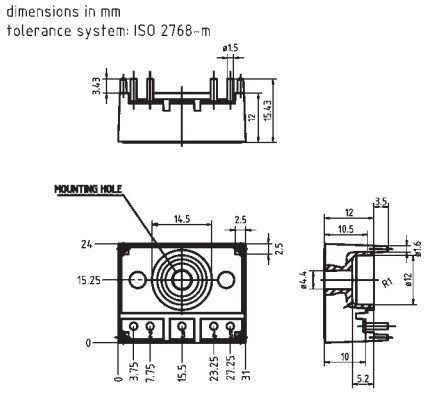
Footnotes

1) New

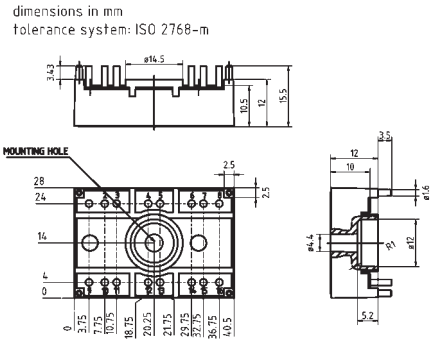
2) Not for New Design

Cases

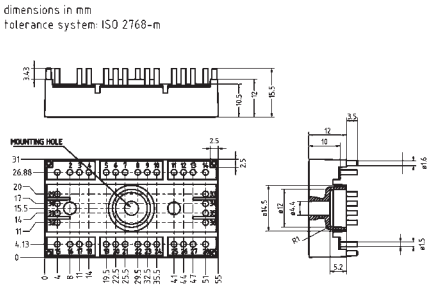
SEMITOP 1



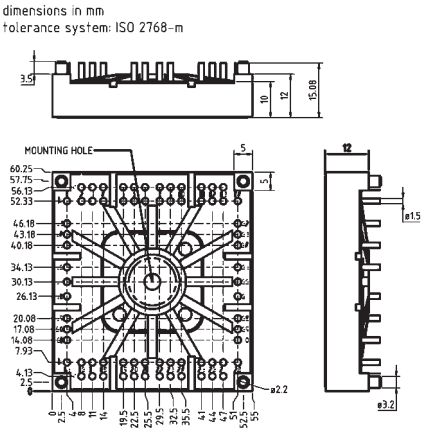
SEMITOP 2



SEMITOP 3



SEMITOP 4



Dimensions in mm

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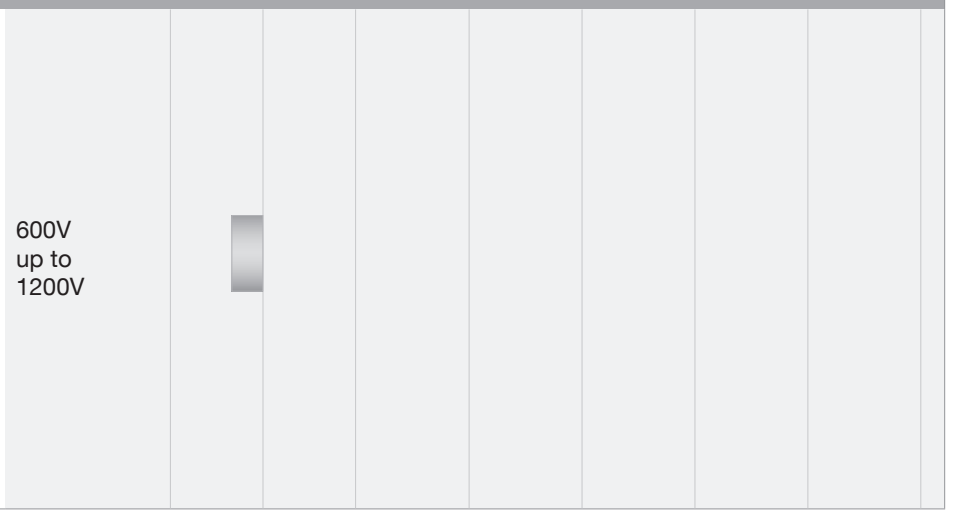
IPM Intelligent Power Module

MiniSKiiP® IPM

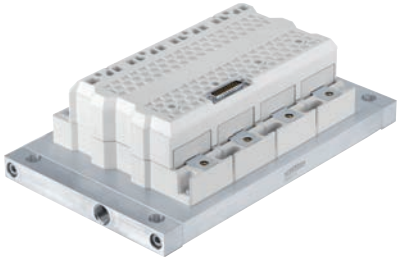
CIB
6-pack

600V
up to
1200V

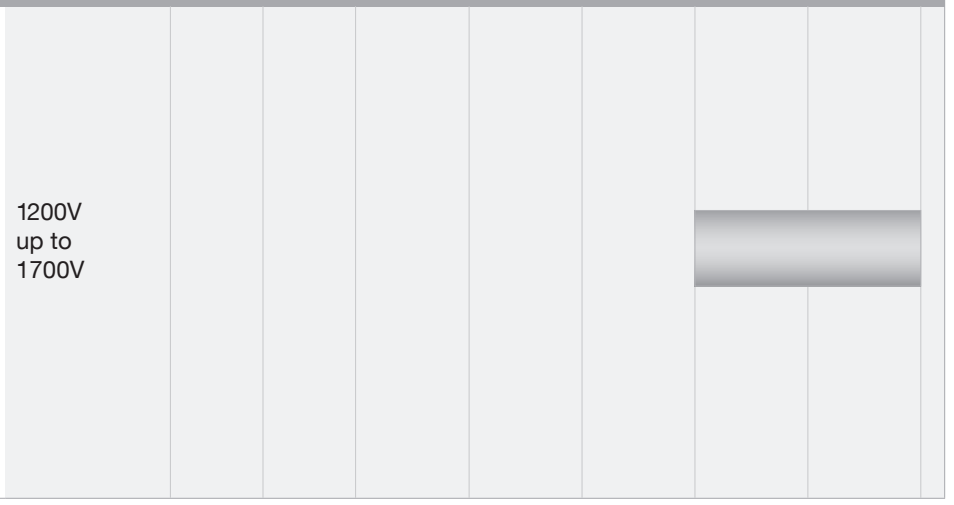


SKiiP® 4

half bridge

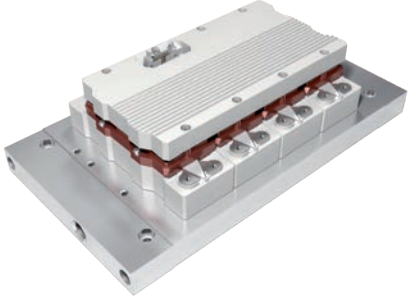


1200V
up to
1700V

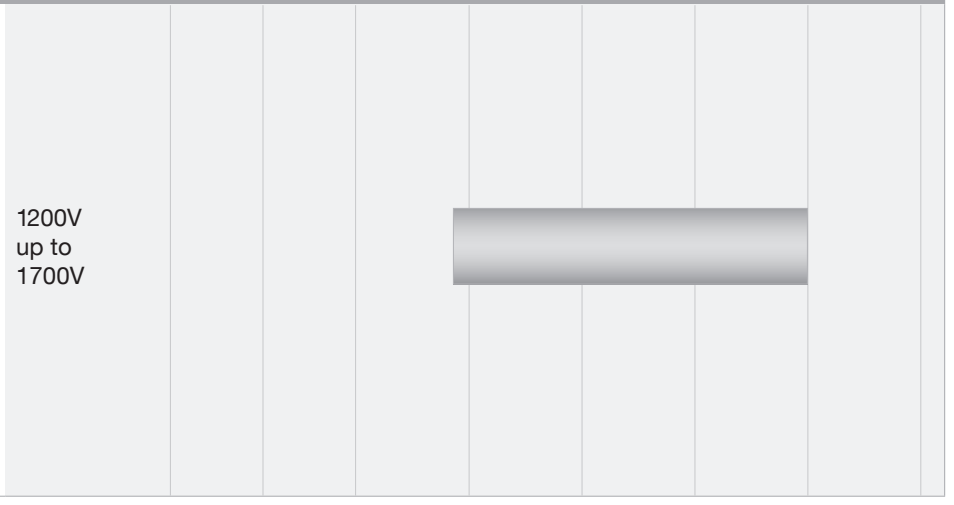


SKiiP® 3

6-pack
half bridge



1200V
up to
1700V



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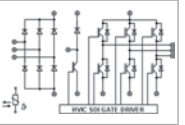
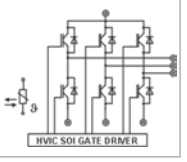
Modules - IPM - MiniSKiiP

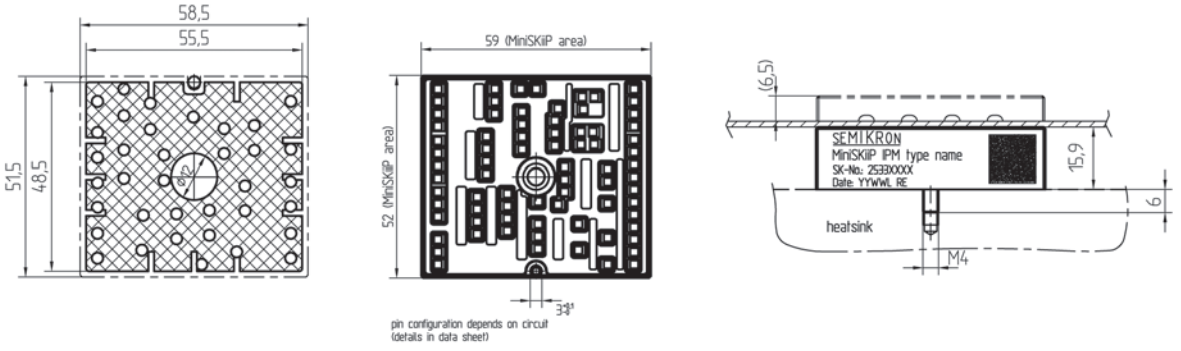
Type	IGBT						Diode				Rectifier		Case	Circuit
	I_C @ T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @ T_S= 25°C	V_F @T_j=	E_{rr}	$R_{th(j-s)}$	I_{FSM} @ T_S= 25°C	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W	A	K/W		
600 V - IGBT 3 (Trench)														
SKiiP 25NABI066V3 [1]	41	30	1.5	1.1	1	1.4	37	1.6	0.7	1.8	370	1.7	IPM 2	
SKiiP 26NABI066V3 [1]	59	50	1.45	2.4	2.1	1.1	51	1.5	1	1.6	370	1.7	IPM 2	
1200 V - IGBT 4 (Trench)														
SKiiP 25ACI12T4V2 [1]	62	50	1.85	6.6	5.7	0.84	59	2.25	3	0.99	-	-	IPM 2	

Footnotes

[1] New

Cases

MiniSKiiP IPM 2



Dimensions in mm

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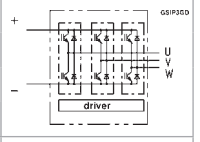
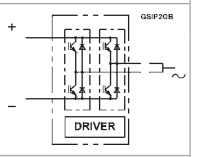
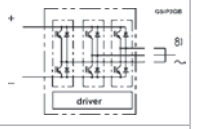
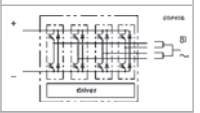
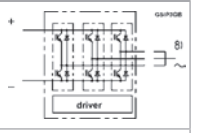
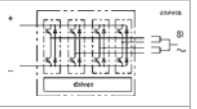
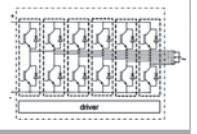
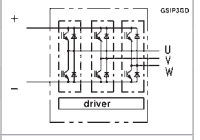
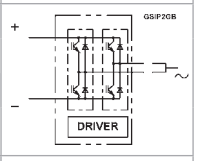
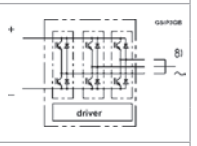
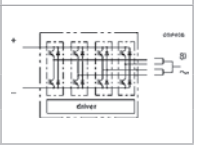
Modules - IPM - SKiiP 3 / 4

Type	IGBT				Diode			Case		Circuit
	I_C @T_S= 25°C	I_{nom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on} + E_{off}	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	Case	Options F=F-Option U=U-Option S=SKiFace Adapter	
	A	A	V	mJ	A	V	mJ			
1200 V - IGBT 3 (Trench) - SKiiP 3										
SKiiP 603 GD123-3DUL V3	627	600	1.7	195	508	1.50	28	S33	-	
SKiiP 603 GD123-3DUW V3	627	600	1.7	195	508	1.50	28	S33	-	
SKiiP 613 GD123-3DUL V3	577	600	1.7	195	466	1.50	28	S33	-	
SKiiP 613 GD123-3DUW V3	577	600	1.7	195	466	1.50	28	S33	-	
SKiiP 1213 GB123-2DL V3	1145	1200	1.7	390	925	1.50	56	S23	F,U	
SKiiP 1213 GB123-2DW V3	1145	1200	1.7	390	925	1.50	56	S23	F,U	
SKiiP 1813 GB123-3DL V3	1695	1800	1.7	585	1411	1.50	84	S33	F,U	
SKiiP 1813 GB123-3DW V3	1695	1800	1.7	585	1411	1.50	84	S33	F,U	
SKiiP 2413 GB123-4DL V3	2280	2400	1.7	780	1807	1.50	112	S43	F,U	
SKiiP 2413 GB123-4DW V3	2280	2400	1.7	780	1807	1.50	112	S43	F,U	
1200 V - IGBT 4 (Trench) - SKiiP 4										
SKiiP 1814 GB12E4-3DUL	2345	1800	2.01	1260	1776	2.33	150	S34	F,S	
SKiiP 1814 GB12E4-3DUW	2345	1800	2.01	1260	1776	2.33	150	S34	F,S	
SKiiP 2414 GB12E4-4DUL	3109	2400	2.01	1680	2369	2.33	200	S44	F,S	
SKiiP 2414 GB12E4-4DUW	3109	2400	2.01	1680	2369	2.33	200	S44	F,S	
SKiiP 3614 GB12E4-6DUL	4664	3600	2.01	2520	3558	2.33	300	S64	F,S	
SKiiP 3614 GB12E4-6DUW	4664	3600	2.01	2520	3558	2.33	300	S64	F,S	
1700 V - IGBT 3 (Trench) - SKiiP 3										
SKiiP 513 GD172-3DUL V3	540	500	1.9	288	438	2.00	43	S33	-	
SKiiP 513 GD172-3DUW V3	540	500	1.9	288	438	2.00	43	S33	-	
SKiiP 603 GD172-3DUL V3	587	570	1.9	288	476	2.00	43	S33	-	
SKiiP 603 GD172-3DUW V3	570	570	1.9	288	476	2.00	43	S33	-	
SKiiP 1013 GB172-2DL V3	1072	1000	1.9	575	879	2.00	86	S23	F,U	
SKiiP 1013 GB172-2DW V3	1072	1000	1.9	575	879	2.00	86	S23	F,U	
SKiiP 1203 GB172-2DL V3	1159	1200	1.9	575	961	2.00	86	S23	F,U	
SKiiP 1203 GB172-2DW V3	1159	1200	1.9	575	961	2.00	86	S23	F,U	
SKiiP 1513 GB172-3DL V3	1589	1500	1.9	863	1336	2.00	128	S33	F,U	
SKiiP 1513 GB172-3DW V3	1589	1500	1.9	863	1336	2.00	128	S33	F,U	
SKiiP 1803 GB172-3DL V3	1744	1800	1.9	863	1454	2.00	128	S33	F,U	
SKiiP 1803 GB172-3DW V3	1744	1800	1.9	863	1454	2.00	128	S33	F,U	
SKiiP 2013 GB172-4DL V3	2102	2000	1.9	1150	1758	2.00	171	S43	F,U	
SKiiP 2013 GB172-4DW V3	2102	2000	1.9	1150	1758	2.00	171	S43	F,U	
SKiiP 2403 GB172-4DL V3	2282	2400	1.9	1150	1921	2.00	171	S43	F,U	
SKiiP 2403 GB172-4DW V3	2282	2400	1.9	1150	1921	2.00	171	S43	F,U	

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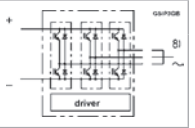
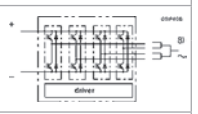
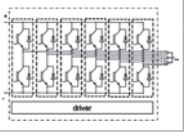
Modules - IPM - SKiiP 3 / 4

Type	IGBT				Diode			Case		Circuit
	I_C @T_S= 25°C	I_{nom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on} + E_{off}	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	Case	Options F=F-Option U=U-Option S=SKiFace Adapter	
	A	A	V	mJ	A	V	mJ			
1700 V - IGBT 4 (Trench) - SKiiP 4										
SKiiP 1814 GB17E4-3DUL	2547	1800	2.12	2130	1771	2.02	498	S34	F,S	
SKiiP 1814 GB17E4-3DUW	2547	1800	2.12	2130	1771	2.02	498	S34	F,S	
SKiiP 2414 GB17E4-4DUL	3385	2400	2.12	2840	2362	2.02	664	S44	F,S	
SKiiP 2414 GB17E4-4DUW	3385	2400	2.12	2840	2362	2.02	664	S44	F,S	
SKiiP 3614 GB17E4-6DUL	5078	3600	2.12	6840	3547	2.02	996	S64	F,S	
SKiiP 3614 GB17E4-6DUW	5078	3600	2.12	6840	3547	2.02	996	S64	F,S	

Type	Description
F-Option SKiiP4	
SKiiP4 F-Option	Fiber optic control board for SKiiP4
SKiiP3 Parallel Board	
SKiiP3 Parallel Board 4-fold	Board for paralleling of 4 SKiiP3, F-Option usage possible
SKiiP3 Parallel Board 3-fold	Board for paralleling of 3 SKiiP3, F-Option usage possible
SKiiP3 Parallel Board 2-fold	Board for paralleling of 2 SKiiP3, F-Option usage possible
SKiiP4 Parallel Board	
SKiiP4 Parallel Board 4-fold without F-Option	Board for paralleling of 4 SKiiP4, F-Option usage not possible
SKiiP4 Parallel Board 4-fold F-Option	Board for paralleling of 4 SKiiP4, F-Option usage possible
SKiiP4 Parallel Board 3-fold without F-Option	Board for paralleling of 3 SKiiP4, F-Option usage not possible
SKiiP4 Parallel Board 3-fold F-Option	Board for paralleling of 3 SKiiP4, F-Option usage possible
SKiiP4 Parallel Board 2-fold without F-Option	Board for paralleling of 2 SKiiP4, F-Option usage not possible
SKiiP4 Parallel Board 2-fold F-Option	Board for paralleling of 2 SKiiP4, F-Option usage possible
SKiFace Adapter Board	
SKiiP4 SKiFace Adapter UZK	Adapter board to connect SKiiP4 to SKiiP3 controller with DC-Link voltage measurement function
SKiiP4 SKiFace Adapter Temp	Adapter board to connect SKiiP4 to SKiiP3 controller with temperatur measurement function

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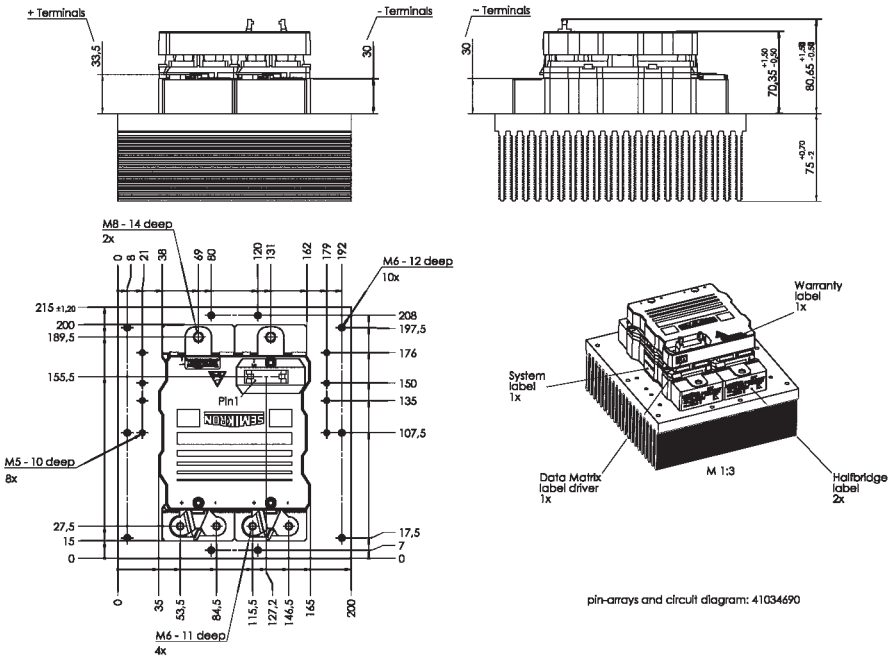
Cases SKiiP 3

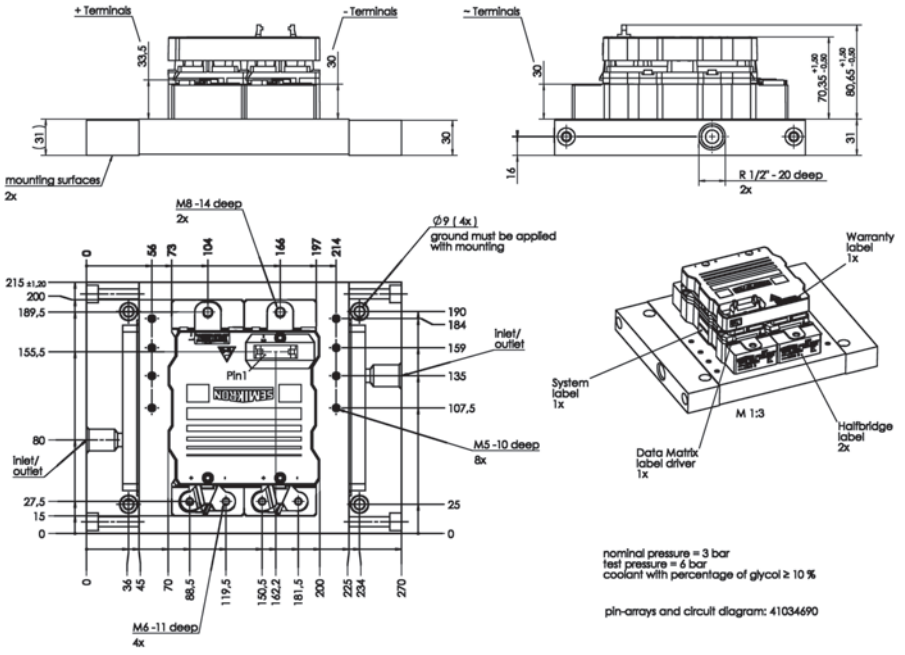
Case S 23 mounted on P3016 heat sink



weight without heat sink: **1,7 kg**

P3016: **4,4 kg**

Case S 23 mounted on liquid cooled heat sink NWK 40



NWK 40: **2,8 kg**

Dimensions in mm

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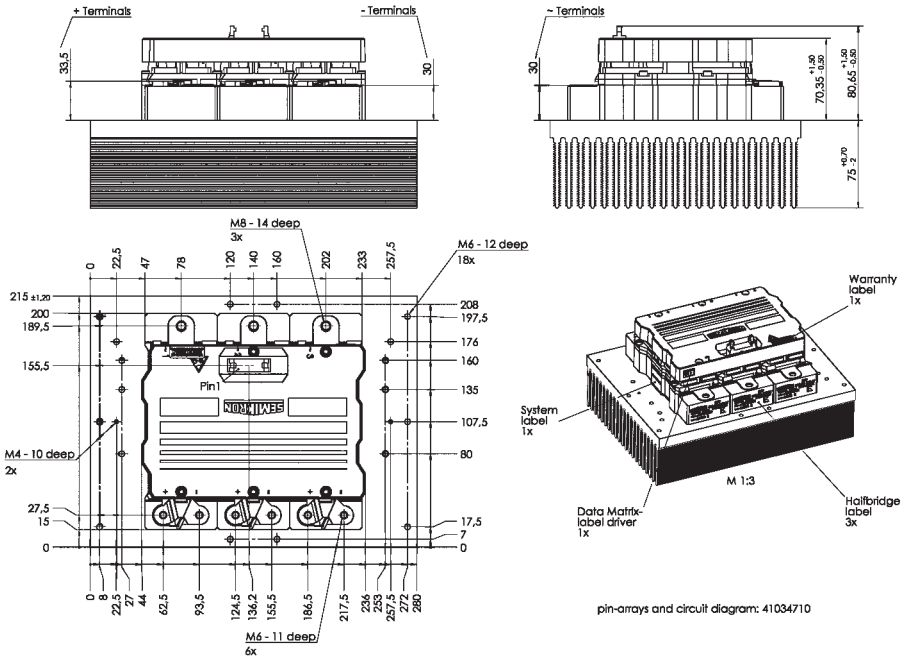
Modules - IPM - SKiiP 3 / 4

Cases SKiiP 3

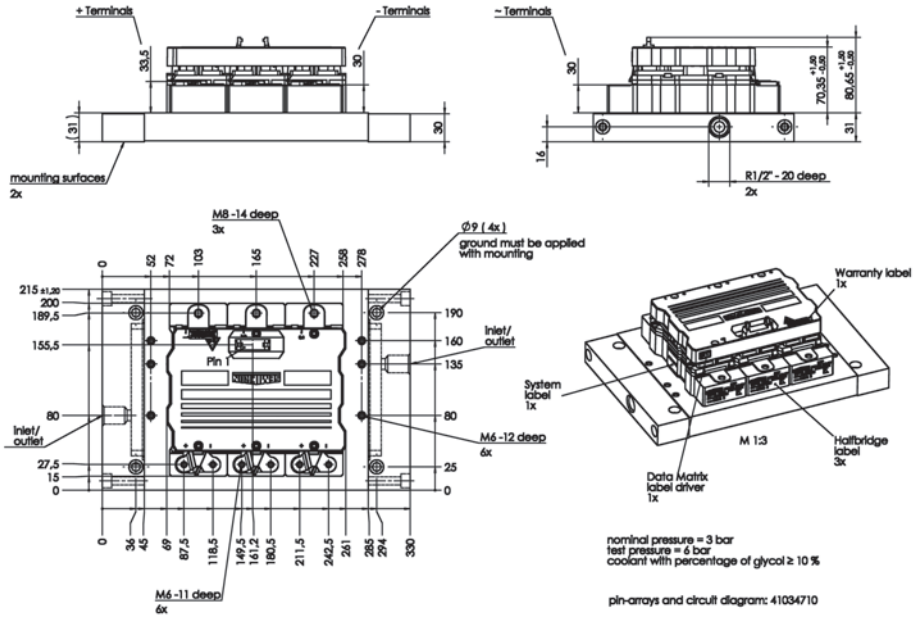
Case S 33 mounted on P3016 heat sink



weight without heat sink: **2,4 kg**

P3016: **6,2 kg**

Case S 33 mounted on liquid cooled heat sink NWK 40



NWK 40: **5,2 kg**

Dimensions in mm

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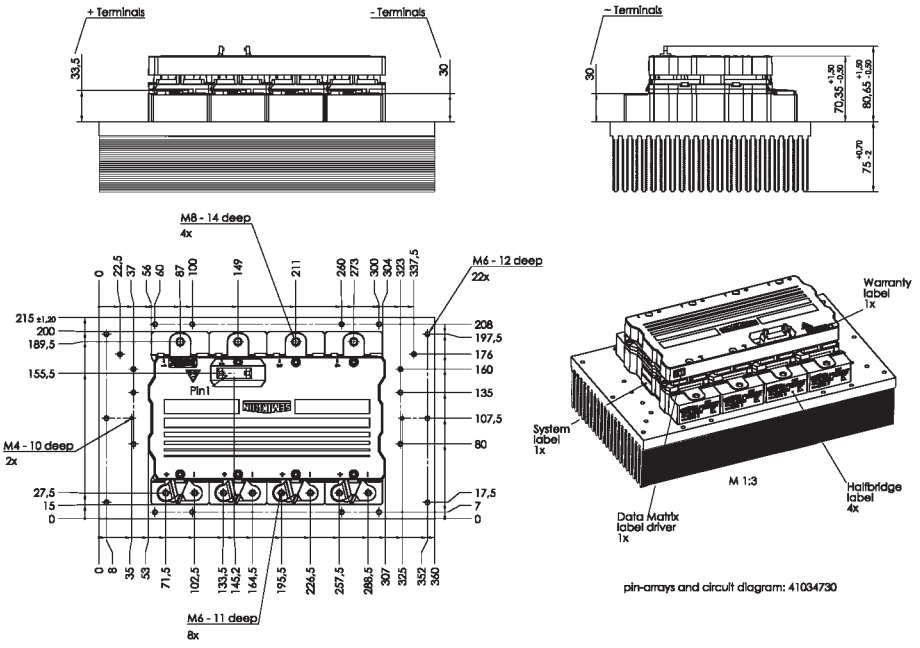
Cases SKiiP 3

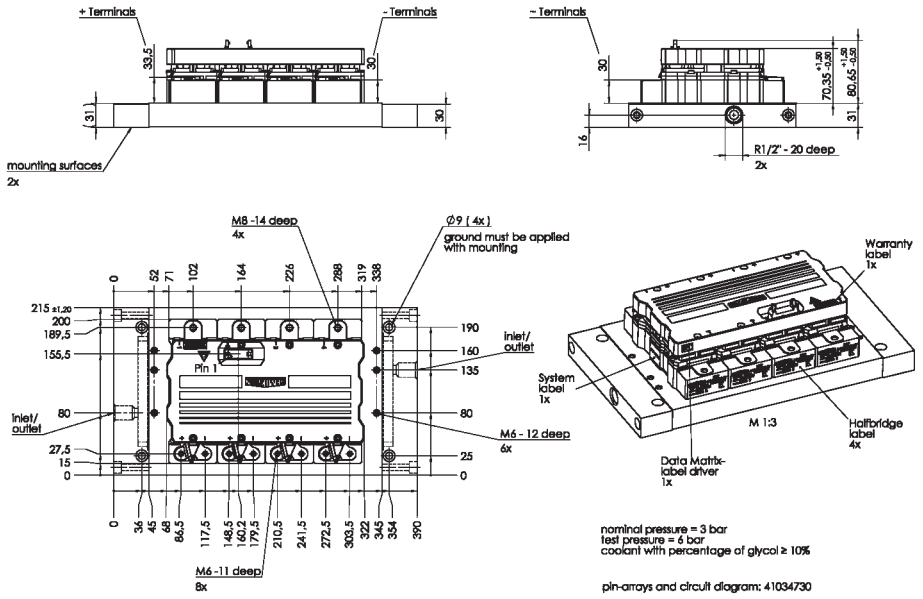
Case S 43 mounted on P3016 heat sink



pin-arrays and circuit diagram: 41034730

weight without heat sink:	**3,1 kg**
P3016:	**8,0 kg**

Case S 43 mounted on liquid cooled heat sink NWK 40



nominal pressure = 3 bar
test pressure = 6 bar
coolant with percentage of glycol ≥ 10%

pin-arrays and circuit diagram: 41034730

NWK 40:	**6,2 kg**

Dimensions in mm

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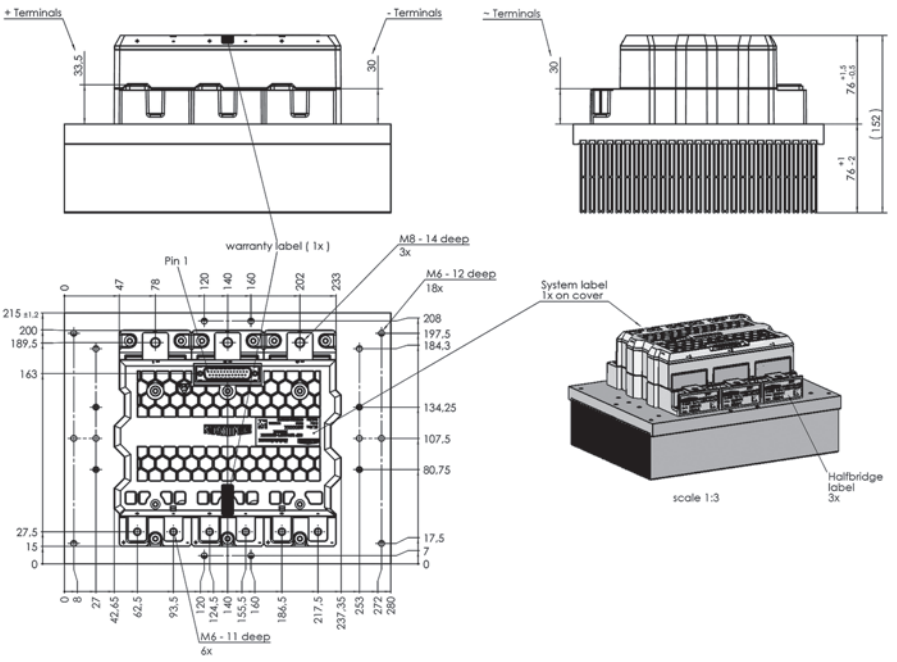
Modules - IPM - SKiiP 3 / 4

Cases SKiiP 4

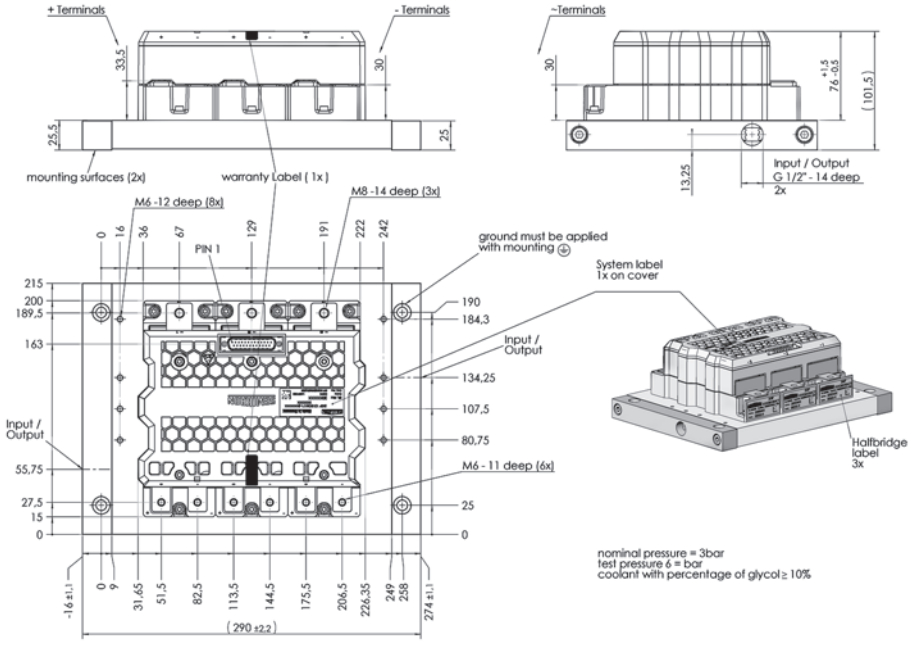
Case S 34 mounted on P4016 heat sink



weight without heat sink: **2,48 kg**

P4016: **5,9 kg**

Case S 34 mounted on liquid cooled heat sink NHC



NHC: **3,49 kg**

Dimensions in mm

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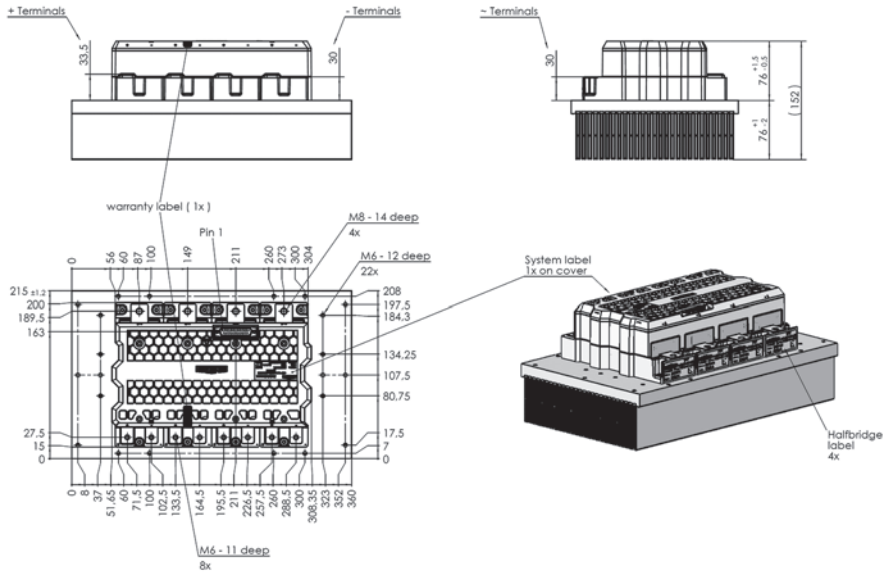
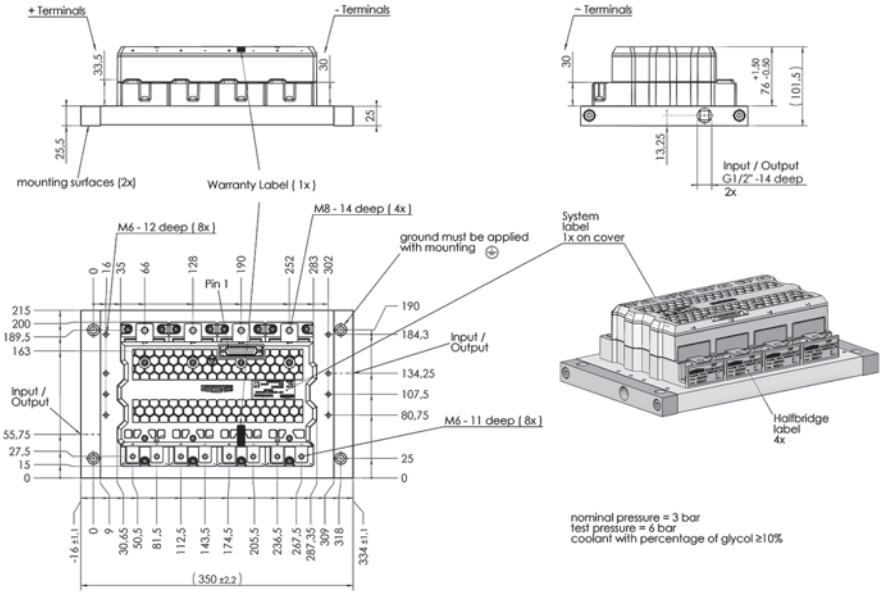
Cases SKiiP 4

Case S 44 mounted on P4016 heat sink



weight without heat sink:	**3,22 kg**
P4016:	**7,55 kg**

Case S 44 mounted on liquid cooled heat sink NHC



NHC:	**4,25 kg**

Dimensions in mm

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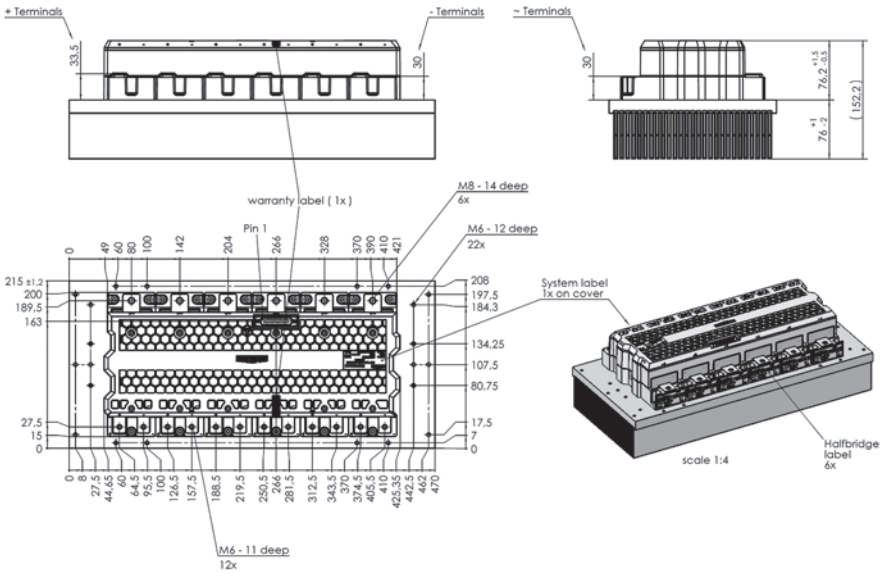
Modules - IPM - SKiiP 3 / 4

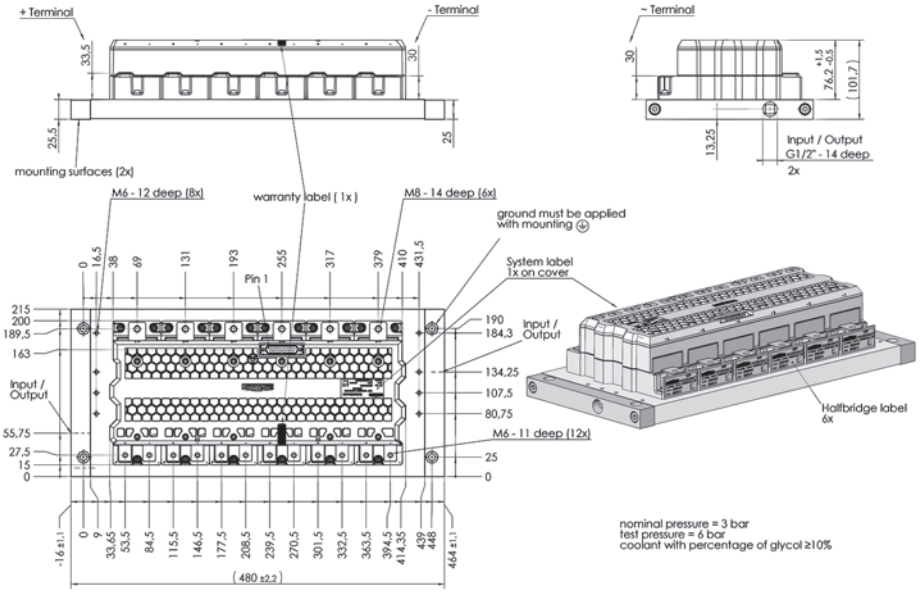
Cases SKiiP 4

Case S 64 mounted on P4016 heat sink



weight without heat sink:	**4,84 kg**
P4016:	**9,9 kg**

Case S 64 mounted on liquid cooled heat sink NHC



NHC:	**5,77 kg**

Dimensions in mm

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MOSFET Modules

SEMITRANS®

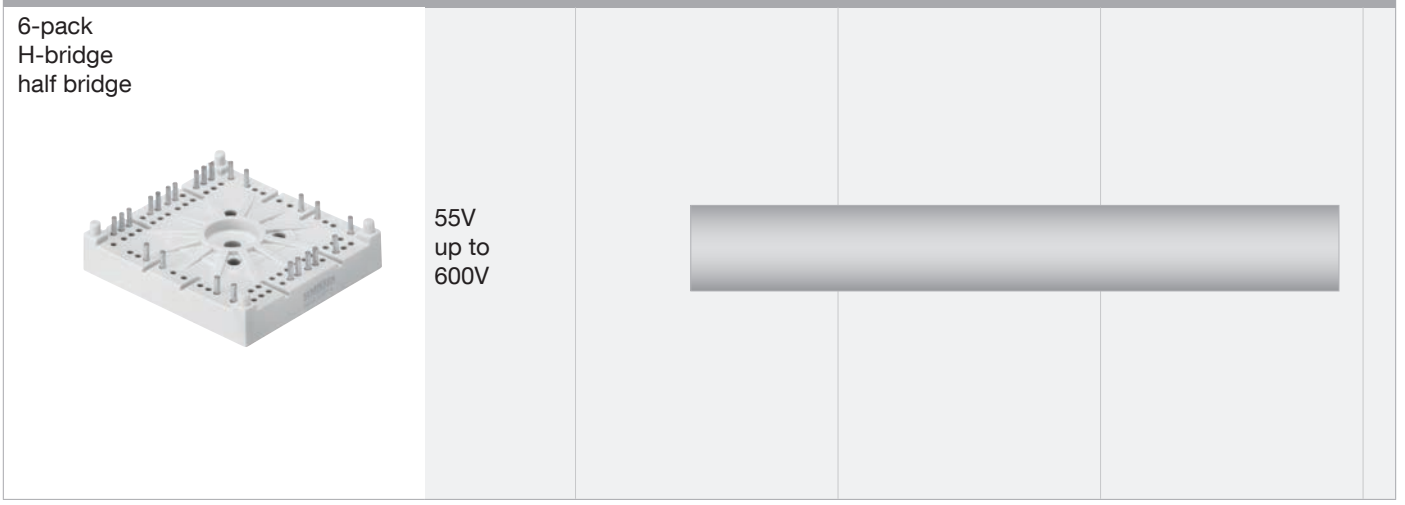
single switch

100V
up to
200V

SEMITOP®

6-pack
H-bridge
half bridge

55V
up to
600V



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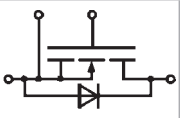
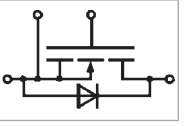
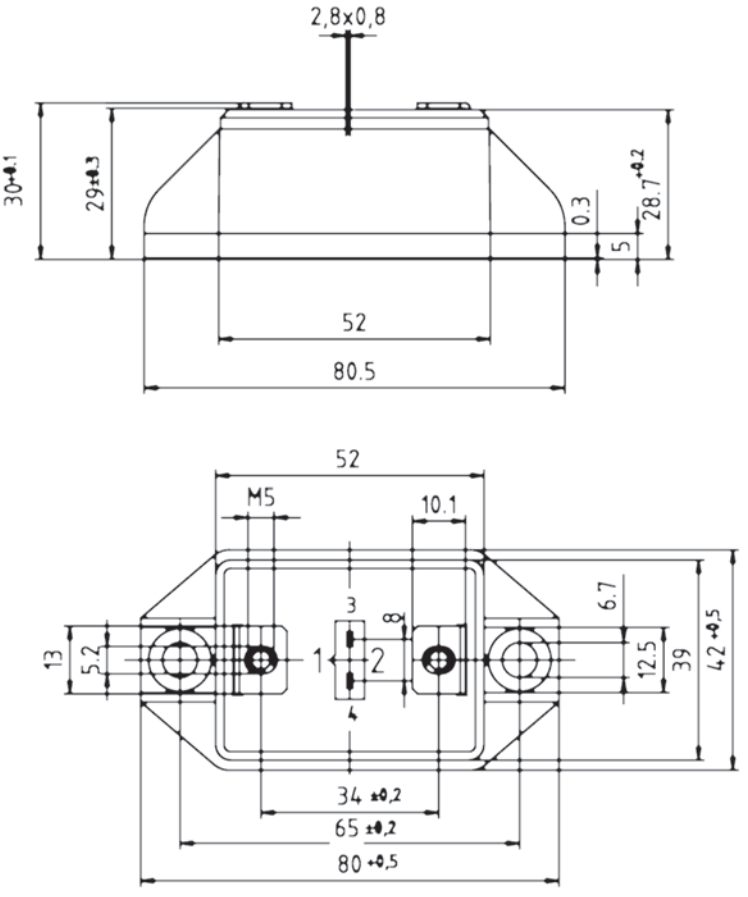
Modules - MOSFET - SEMITRANS

Type	V_{DS} V	I_D @T_C= 25°C A	$R_{DS(on)}$ @T_j= 25°C typ. mΩ	$R_{th(j-c)}$ K/W	Case	Circuit
100 V						
SKM 111 AR	100	200	7	0.18	M1	
200 V						
SKM 180 A020	200	180	9	0.18	M1	

Cases

SEMITRANS M1



Dimensions in mm

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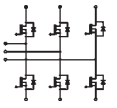
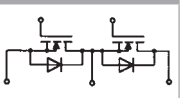
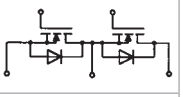
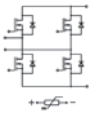
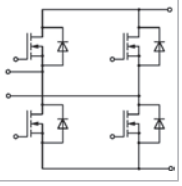
Modules - MOSFET - SEMITOP

Type	V_{DS} V	I_D @T_C= 25°C A	$R_{DS(on)}$ @T_j= 25°C typ. mΩ	$R_{th(j-s)}$ K/W	Case	Circuit
55 V						
SK 80 MBBB 055	55	117	2.2	1.1	3	
75 V						
SK 300 MB 075	75	290	-	0.45	3	
100 V						
SK 260 MB 10	100	230	-	0.45	3	
SK 85 MH 10 T	100	80	-	1.1	2	
600 V						
SK 60 MH 60 [1)]	600	60	33	0.54	4	

For detailed case drawings please see page 26

Footnotes

1) New

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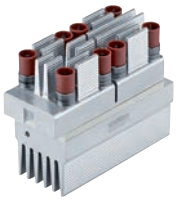
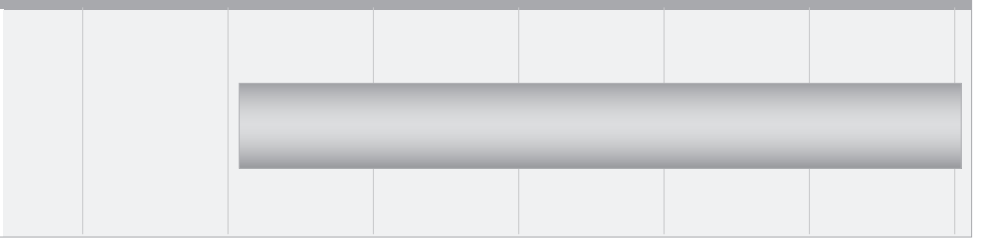
Thyristor / Diode Modules

SEMiSTART®

W1C

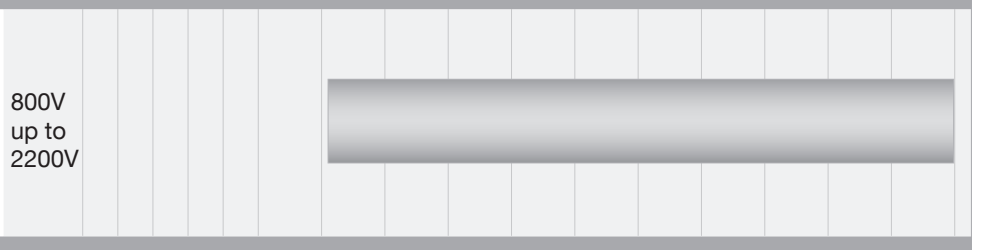




SEMIPACK® 3 / 4 / 5 / 6

single switch
half bridge

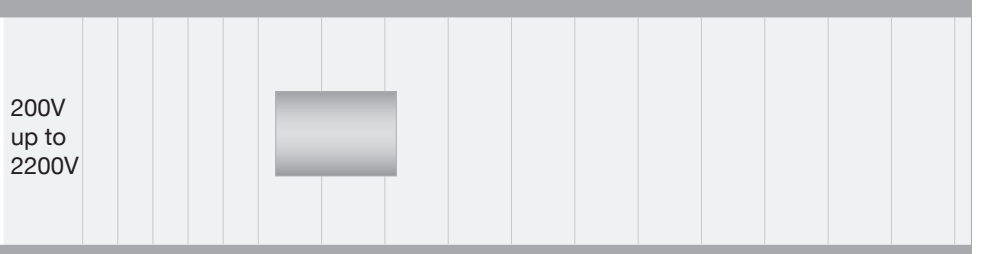
800V
up to
2200V



SEMIPACK® 2 / 3

single switch
half bridge

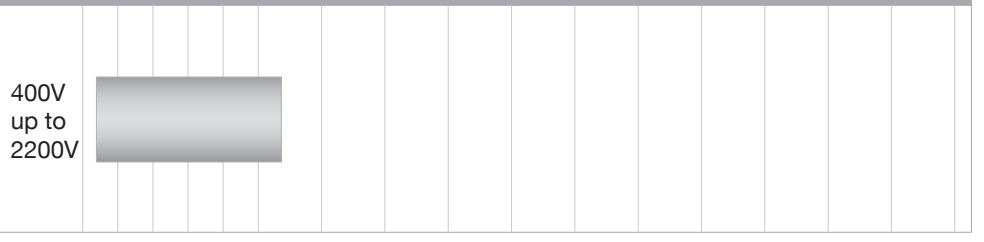
200V
up to
2200V



SEMIPACK® 0 / 1

single switch
half bridge

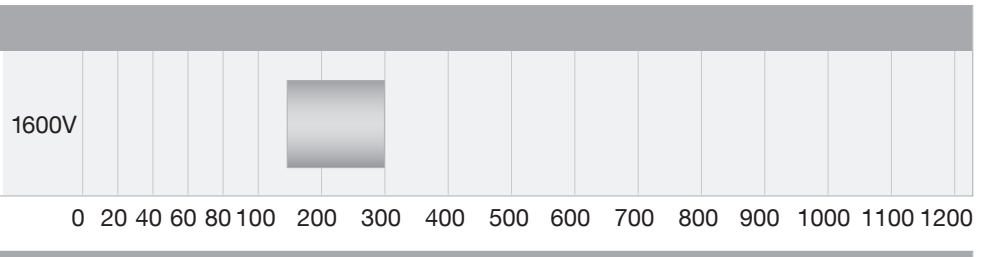
400V
up to
2200V



SEMiX® 1 / 2

half bridge

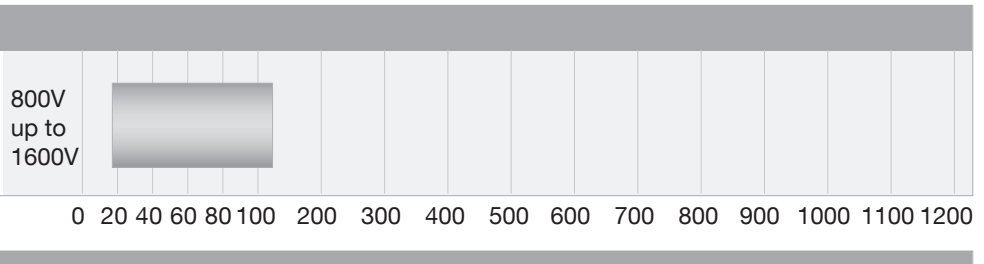
1600V



SEMITOP® 1 / 2 / 3

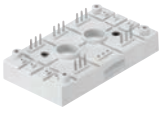
W1C, WT, W3C
single switch

800V
up to
1600V

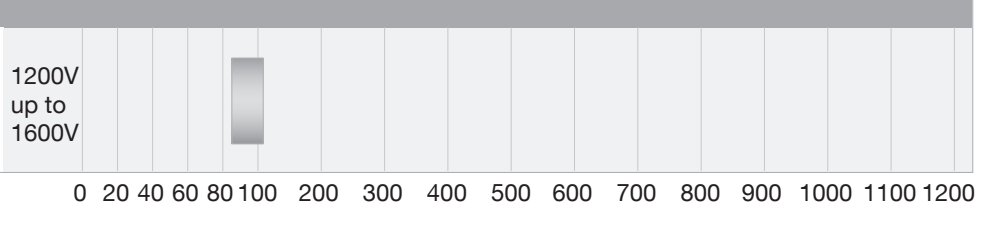


SEMIPONT® 5

W3C



1200V
up to
1600V



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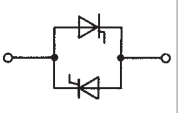
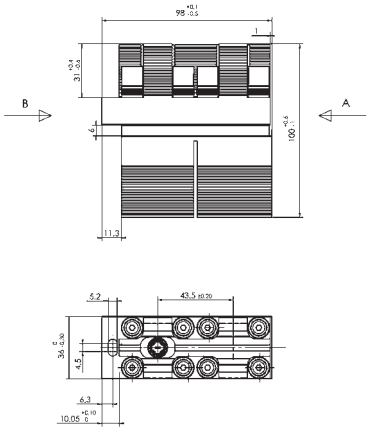
Modules - Thyristors - SEMiSTART

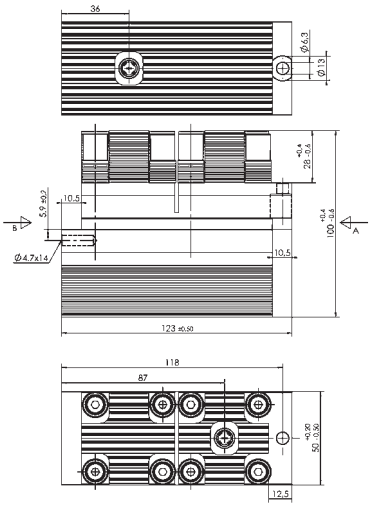
Type	V_{RRM} V_{DRM} V	$I_{overload}$ W1C (for 20s) A	T_C °C	I_{TSM} @T_j= 125°C A	$V_{T(TO)}$ @T_j= 125°C V	r_T @T_j= 125°C mΩ	$R_{th(j-s)}$ cont. per chip K/W	T_j (for 20s) °C	Case	Circuit
SKKQ 560	1400-1800	560	150	5200	0.9	0.9	0.106	150	1	
SKKQ 800	1400-1800	800	150	5200	0.9	0.8	0.106	150	2	
SKKQ 1200	1400-1800	1225	150	8000	0.9	0.5	0.066	150	2	
SKKQ 1201	1400-1800	1225	150	8000	0.9	0.5	0.066	150	2a	
SKKQ 1500	1400-1800	1500	150	15000	0.85	0.3	0.037	150	2	
SKKQ 1501	1400-1800	1500	150	15000	0.85	0.3	0.037	150	2a	
SKKQ 2001	1400-1800	1950	150	15000	0.85	0.3	0.051	150	3a	
SKKQ 3000	1400-1800	3080	150	25500	0.95	0.18	0.026	150	3	
SKKQ 3001	1400-1800	3080	150	25500	0.95	0.18	0.026	150	3a	

Cases

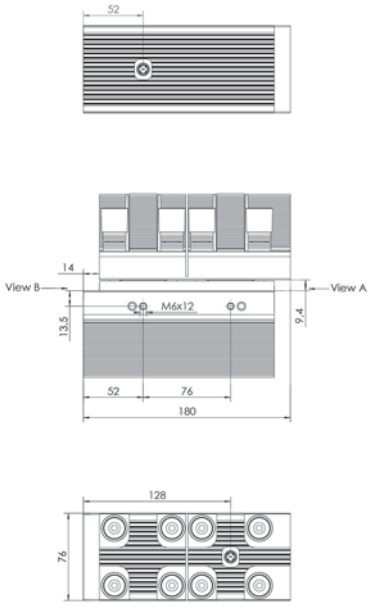
SEMiSTART 1



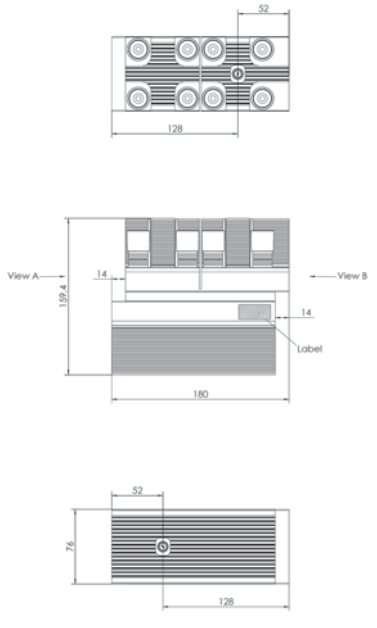
SEMiSTART 2 / 2a



SEMiSTART 3



SEMiSTART 3a



Dimensions in mm

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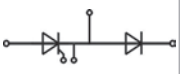
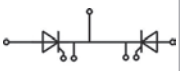
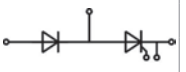
Modules - Thyristor / Diode - SEMIPACK

Type	V_{RRM} V_{DRM} V	I_{TAV} I_{FAV} @T_C A	T_C °C	I_{TSM} I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-c)}$ cont. per chip K/W	$R_{th(c-s)}$ per chip K/W	T_j °C	Case	Circuit
SKET 330	800-2200	295	85	8000	1.2	0.55	0.09	0.02	-40 ... +130	4	
SKET 400	800-1800	392	85	12000	0.92	0.3	0.09	0.02	-40 ... +130	4	
SKKE 15	600-1600	14	85	280	0.85	15	2	0.2	-40 ... +125	0	
SKKE 162	800-1800	195	85	5000	0.85	1.2	0.18	0.1	-40 ... +135	2	
SKKE 380	1200-1600	380	100	10000	0.8	0.35	0.11	0.04	-40 ... +150	3	
SKKE 600	1200-2200	600	100	18000	0.75	0.25	0.07	0.02	-40 ... +150	4	
SKKE 1200	1800-2200	1180	85	40000	0.72	0.19	0.0385	0.01	-40 ... +160	6	
SKET 740	1800-2200	699	85	31000	0.88	0.28	0.0405	0.01	-40 ... +125	6	
SKET 800	1400-1800	808	85	32000	0.83	0.25	0.0405	0.01	-40 ... +130	6	
SKKL 92	800-1800	95	85	1750	0.9	2	0.28	0.2	-40 ... +125	1	
SKMT 92	800-1800	95	85	1750	0.9	2	0.28	0.2	-40 ... +125	1	
SKKD 15	600-1600	14	85	280	0.85	15	2	0.2	-40 ... +125	0	
SKKD 26	1200-1600	31	85	480	0.85	6	1	0.2	-40 ... +125	1	
SKKD 46	400-1800	47	85	600	0.85	5	0.6	0.2	-40 ... +125	1	
SKKD 81	400-1800	82	85	1750	0.85	1.8	0.4	0.2	-40 ... +125	1	
SKKD 100	400-1800	100	85	2000	0.85	1.3	0.35	0.2	-40 ... +125	1	
SKKD 101/16 [1]	1600	134	85	2000	0.87	2.45	0.19	0.22	-40 ... +130	1	
SKKD 162	800-2200	195	85	5000	0.85	1.2	0.18	0.1	-40 ... +135	2	
SKKD 212	1200-1800	212	85	5500	0.75	1.05	0.18	0.1	-40 ... +135	2	
SKKD 260	800-2200	260	85	10000	0.9	0.37	0.14	0.04	-40 ... +130	3	
SKKD 380	800-2200	380	100	10000	0.8	0.35	0.11	0.04	-40 ... +150	3	
SKKD 701	1200-2200	701	100	22500	0.7	0.28	0.069	0.02	-40 ... +160	5	
SKKD 82/22 H4 [5]	2200	-	-	-	-	-	-	-	-	1	
SKKH 15	600-1600	13.5	85	280	1.1	20	1.6	0.2	-40 ... +125	0	
SKKH 27	800-1800	25	85	480	0.9	12	0.9	0.2	-40 ... +125	1	
SKKH 42	800-1800	40	85	850	1	4.5	0.65	0.2	-40 ... +125	1	
SKKH 58/16 E [1]	1600	55	85	1200	1	4.8	0.47	0.22	-40 ... +130	1	
SKKH 57	800-1800	50	85	1250	0.9	3.5	0.57	0.2	-40 ... +125	1	
SKKH 72	800-1800	70	85	1450	0.9	3.5	0.35	0.2	-40 ... +125	1	
SKKH 92	800-1800	95	85	1750	0.9	2	0.28	0.2	-40 ... +125	1	
SKKH 106	800-1800	106	85	1900	0.9	2	0.28	0.2	-40 ... +130	1	
SKKH 107/16 E [1]	1600	119	85	1900	0.9	3.35	0.19	0.22	-40 ... +130	1	
SKKH 122	800-1800	129	85	3200	0.85	2	0.2	0.13	-40 ... +125	2	
SKKH 132 H4	2000-2200	128	85	3800	1.1	2	0.17	0.1	-40 ... +125	2	
SKKH 132	800-1800	137	85	4000	1	1.6	0.18	0.1	-40 ... +125	2	
SKKH 162 H4	2000-2200	143	85	4800	0.95	2	0.16	0.1	-40 ... +125	2	
SKKH 162	800-1800	156	85	5000	0.85	1.5	0.17	0.1	-40 ... +125	2	
SKKH 172	1600	175	85	5000	0.83	1.3	0.155	0.1	-40 ... +125	2	
SKKH 280 H4	2000-2200	252	85	7500	0.9	0.75	0.11	0.04	-40 ... +125	3	
SKKH 250	1200-1800	250	85	8000	0.925	0.45	0.14	0.04	-40 ... +130	3	
SKKH 273	1200-1800	273	85	8000	0.9	0.92	0.104	0.08	-40 ... +130	3	
SKKH 330	800-1800	305	85	8000	0.8	0.6	0.11	0.04	-40 ... +130	3	
SKKH 323	1200-1600	320	85	8200	0.81	0.85	0.091	0.08	-40 ... +130	3	
SKKH 460	1600	460	85	15500	0.88	0.45	0.072	0.02	-40 ... +130	5	
SKKH 460 H4	2200	460	85	15500	0.88	0.45	0.072	0.02	-40 ... +130	5	
SKKH 570	1600-1800	570	85	15500	0.78	0.32	0.069	0.02	-40 ... +135	5	
SKKH 73/22 H4	2200	-	-	-	-	-	-	-	-	1	

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Modules - Thyristor / Diode - SEMIPACK

Type	V_{RRM} V_{DRM} V	I_{TAV} I_{FAV} @T_C A	T_C °C	I_{TSM} I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-c)}$ cont. per chip K/W	$R_{th(c-s)}$ per chip K/W	T_j °C	Case	Circuit
SKKT 15	600-1600	13.5	85	280	1.1	20	1.6	0.2	-40 ... +125	0	
SKKT 20	800-1600	18	85	280	1	16	1.2	0.2	-40 ... +125	1	
SKKT 20B	800-1600	18	85	280	1	16	1.2	0.2	-40 ... +125	1	
SKKT 27	800-1600	25	85	480	0.9	12	0.9	0.2	-40 ... +125	1	
SKKT 27B	800-1600	25	85	480	0.9	12	0.9	0.2	-40 ... +125	1	
SKKT 42	800-1800	40	85	850	1	4.5	0.65	0.2	-40 ... +125	1	
SKKT 42B	800-1800	40	85	850	1	4.5	0.65	0.2	-40 ... +125	1	
SKKT 58/16 E [1]	1600	55	85	1200	1	4.8	0.47	0.22	-40 ... +130	1	
SKKT 58B16 E [1]	1600	55	85	1200	1	4.8	0.47	0.22	-40 ... +130	1	
SKKT 57	800-1800	50	85	1250	0.9	3.5	0.57	0.2	-40 ... +125	1	
SKKT 57 H4	2000-2200	50	85	1250	0.9	3.5	0.57	0.2	-40 ... +125	1	
SKKT 57B	800-1800	50	85	1250	0.9	3.5	0.57	0.2	-40 ... +125	1	
SKKT 72	800-1800	70	85	1450	0.9	3.5	0.35	0.2	-40 ... +125	1	
SKKT 72 H4	2000-2200	70	85	1450	0.9	3.5	0.35	0.2	-40 ... +125	1	
SKKT 72B	800-1800	70	85	1450	0.9	3.5	0.35	0.2	-40 ... +125	1	
SKKT 92	800-1800	95	85	1750	0.9	2	0.28	0.2	-40 ... +125	1	
SKKT 92B	800-1800	95	85	1750	0.9	2	0.28	0.2	-40 ... +125	1	
SKKT 106	800-1800	106	85	1900	0.9	2	0.28	0.2	-40 ... +130	1	
SKKT 106B	800-1800	106	85	1900	0.9	2	0.28	0.2	-40 ... +130	1	
SKKT 107/16 E [1]	1600	119	85	1900	0.9	3.35	0.19	0.22	-40 ... +130	1	
SKKT 107B16 E [1]	1600	119	85	1900	0.9	3.35	0.19	0.22	-40 ... +130	1	
SKKT 122	800-1800	129	85	3200	0.85	2	0.2	0.13	-40 ... +125	2	
SKKT 132 H4	2000-2200	128	85	3800	1.1	2	0.17	0.1	-40 ... +125	2	
SKKT 132	800-1800	137	85	4000	1	1.6	0.18	0.1	-40 ... +125	2	
SKKT 162 H4	2000-2200	143	85	4800	0.95	2	0.16	0.1	-40 ... +125	2	
SKKT 162	800-1800	156	85	5000	0.85	1.5	0.17	0.1	-40 ... +125	2	
SKKT 172	1400-1800	175	85	5000	0.83	1.3	0.155	0.1	-40 ... +125	2	
SKKT 280 H4	2000-2200	252	85	7500	0.9	0.75	0.11	0.04	-40 ... +125	3	
SKKT 250	800-1800	250	85	8000	0.925	0.45	0.14	0.04	-40 ... +130	3	
SKKT 273	1200-1800	273	85	8000	0.9	0.92	0.104	0.08	-40 ... +130	3	
SKKT 330	800-1800	305	85	8000	0.8	0.6	0.11	0.04	-40 ... +130	3	
SKKT 323	1200-1600	320	85	8200	0.81	0.85	0.091	0.08	-40 ... +130	3	
SKKT 460	1600	460	85	15500	0.88	0.45	0.072	0.02	-40 ... +130	5	
SKKT 460 H4	2200	460	85	15500	0.88	0.45	0.072	0.02	-40 ... +130	5	
SKKT 570	1200-1800	570	85	15500	0.78	0.32	0.069	0.02	-40 ... +135	5	

Footnotes

[1] New

[5] UNDER DEVELOPMENT

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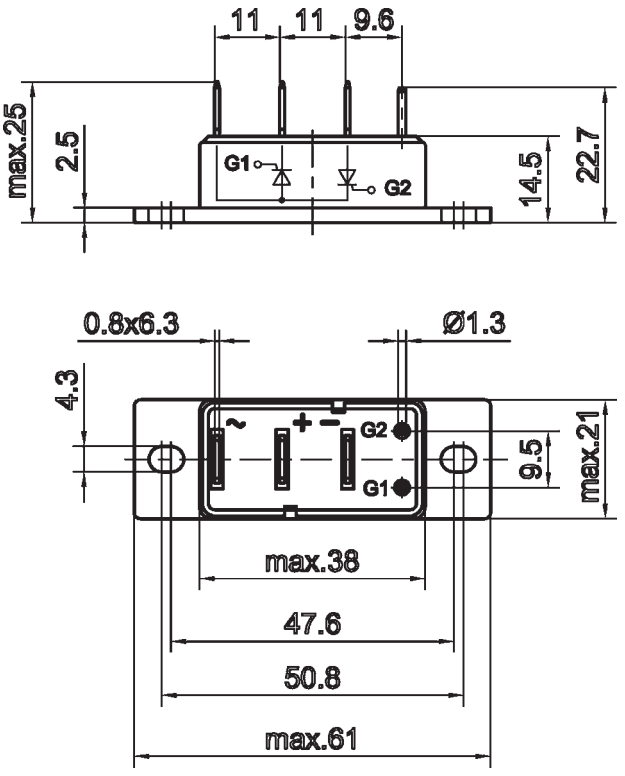
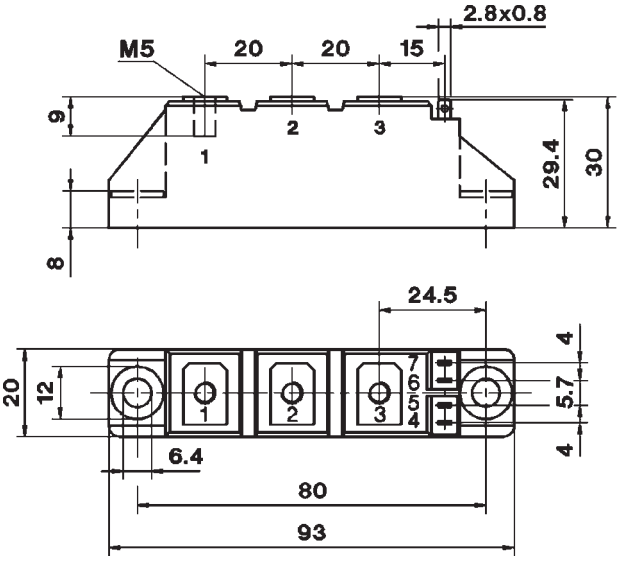
Modules - Thyristor / Diode - SEMIPACK

Cases

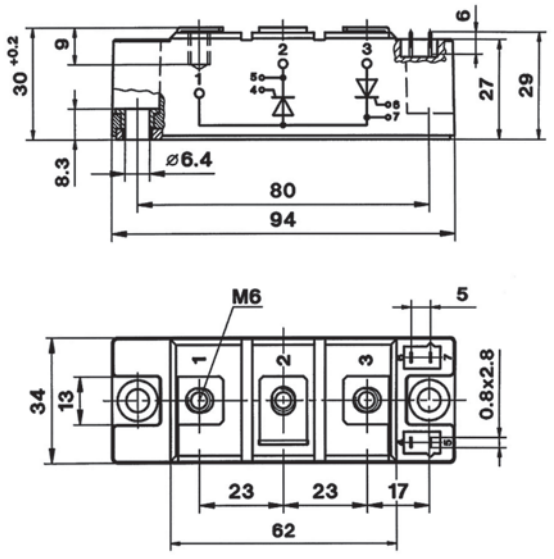
SEMIPACK 0



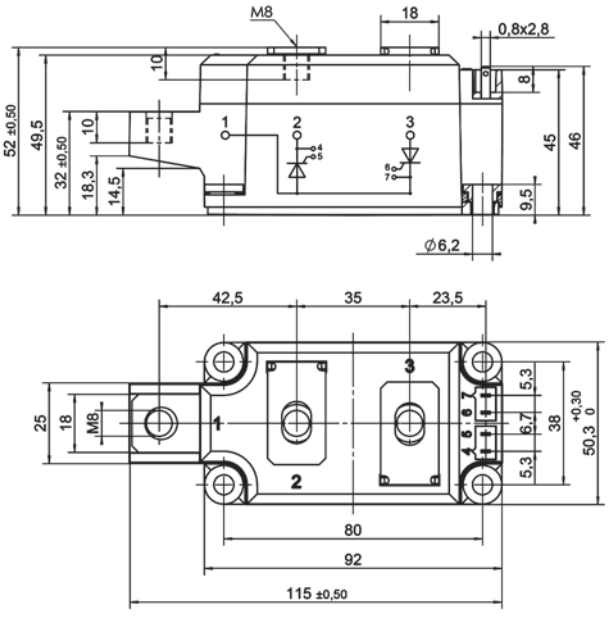
SEMIPACK 1



SEMIPACK 2



SEMIPACK 3



Dimensions in mm

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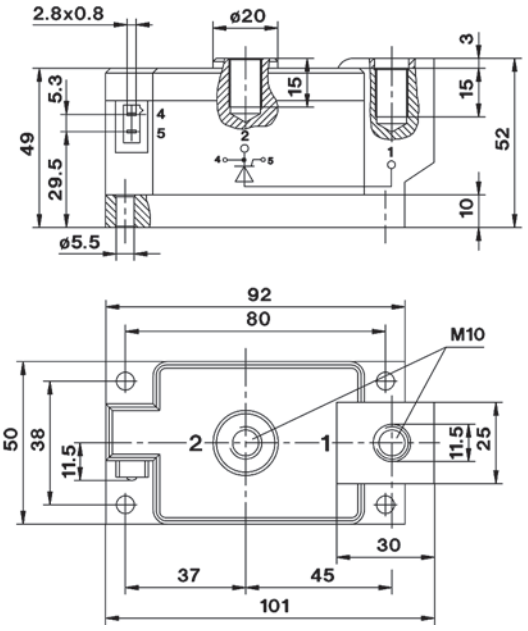
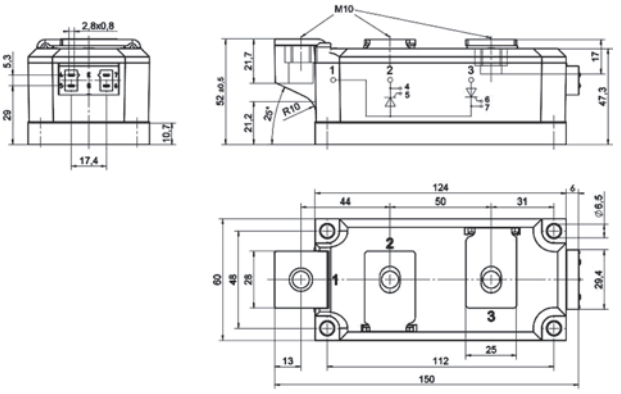
Modules - Thyristor / Diode - SEMIPACK

Cases

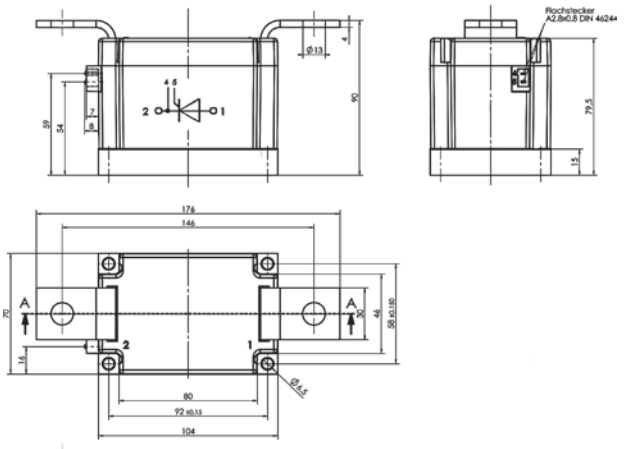
SEMIPACK 4



SEMIPACK 5



SEMIPACK 6



Dimensions in mm

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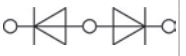
Modules - Thyristor / Diode - SEMIPACK Fast

Type	V_{RRM} V_{DRM} V	I_{TAV} I_{FAV} @T_C A	T_C °C	I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-c)}$ per chip K/W	$R_{th(c-s)}$ per chip K/W	T_j °C	Case	Circuit
SKKE 120F	1700	120	82	1800	1.5	4.5	0.2	0.05	-40 ... +150	2	
SKKE 290F	600	290	109	6000	0.9	1.2	0.08	0.05	-40 ... +150	2	
SKKE 301F	1200	300	43	3600	1.2	2.75	0.11	0.05	-40 ... +150	2	
SKKE 310F	1200	310	84	5500	1.2	1.9	0.08	0.05	-40 ... +150	2	
SKKE 330F [5]	1700	330	70	5200	1.5	1.9	0.079	0.038	-40 ... +150	4	
SKKE 600F [5]	1200	600	85	5800	1.2	1.9	0.062	0.038	-40 ... +150	4	
SKKD 60F	1700	60	83	900	1.5	9	0.4	0.1	-40 ... +150	2	
SKKD 75F12	1200	75	55	900	1.2	11	0.4	0.1	-40 ... +150	2	
SKKD 150F	1200	150	54	1800	1.2	5.5	0.2	0.1	-40 ... +150	2	
SKKD 170F	1200	170	85	2300	1.2	3.5	0.14	0.1	-40 ... +150	2	
SKKD 205F	600	205	87	3000	0.9	2	0.16	0.1	-40 ... +150	2	
SKKD 116F [6]	-	-	-	-	-	-	-	-	-	1	
SKMD 150F12	1200	150	54	1800	1.2	5.5	0.2	0.1	-40 ... +150	2	
SKMD 202E	200-300	202	87	2800	0.8	1.5	0.2	0.1	-40 ... +150	2	
SKND 150F	1200	150	54	1800	1.2	5.5	0.2	0.1	-40 ... +150	2	
SKND 202E	200-300	202	87	2800	0.8	1.5	0.2	0.1	-40 ... +150	2	
SKND 205F	600	205	87	3000	0.9	2	0.16	0.1	-40 ... +150	2	

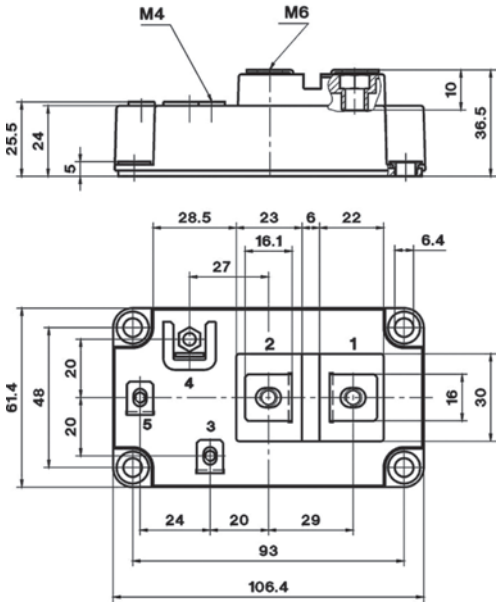
Footnotes

[5] SEMIPACK Fast in SEMITRANS 4 case

[6] UNDER DEVELOPMENT

Cases

SEMIPACK Fast in SEMITRANS 4



Dimensions in mm

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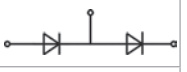
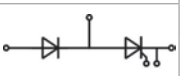
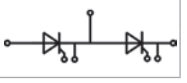
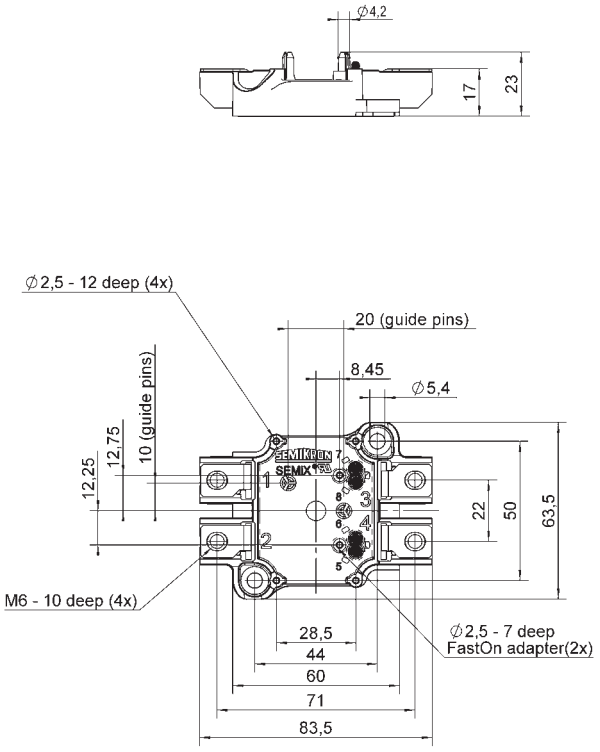
Modules - Thyristor / Diode - SEMiX

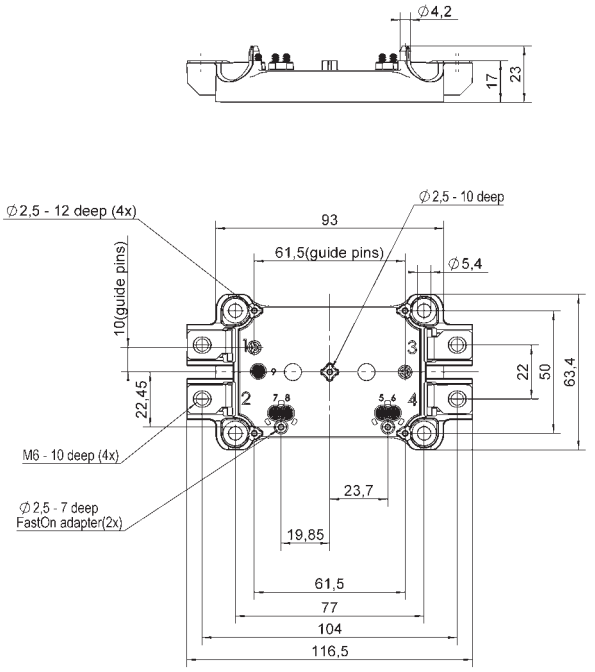
Type	V_{RRM} V_{DRM} V	I_{TAV} I_{FAV} @T_C A	T_C °C	I_{TSM} I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-c)}$ per chip K/W	$R_{th(c-s)}$ per module K/W	T_j °C	Case	Circuit
SEMiX191KD16s	1600	190	85	5000	0.85	0.95	0.18	0.075	-40 ... +130	1s	
SEMiX302KD16s	1600	300	85	7500	0.85	1.1	0.091	0.045	-40 ... +130	2s	
SEMiX171KH16s	1600	170	85	4800	0.85	1.5	0.18	0.075	-40 ... +130	1s	
SEMiX302KH16s	1600	300	85	8000	0.85	1.1	0.091	0.045	-40 ... +130	2s	
SEMiX141KT16s	1600	140	85	3000	0.85	2.1	0.21	0.075	-40 ... +130	1s	
SEMiX302KT16s	1600	300	85	8000	0.85	1.7	0.091	0.045	-40 ... +130	2s	

Cases

SEMiX 1s



SEMiX 2s



Dimensions in mm

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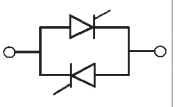
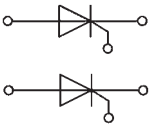
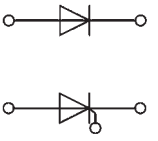
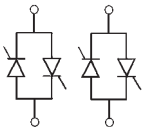
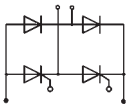
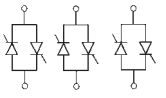
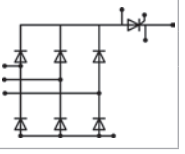
Modules - Thyristor / Diode - SEMITOP

Type	V_{RRM} V_{DRM} V	I_{TAV} I_{FAV} @T_C A	T_C °C	I_{TSM} I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-s)}$ cont. per chip K/W	T_j °C	Case	Circuit
SK 25 KQ	800-1600	29	85	280	1.1	20	1.7	-40 ... +125	1	
SK 45 KQ	800-1600	47	85	380	1	10	1.2	-40 ... +125	1	
SK 70 KQ	800-1600	72	85	900	1	6	0.8	-40 ... +125	1	
SK 100 KQ	800-1600	101	85	1350	0.9	4.5	0.6	-40 ... +125	2	
SK 120 KQ	800-1600	134	85	1800	0.9	3.5	0.45	-40 ... +125	2	
SK 35 TAA	800-1600	35	80	380	0.85	9.1	1.2	-40 ... +130	2	
SK 55 TAA	800-1600	55	80	900	0.85	5.7	0.8	-40 ... +130	2	
SK 75 TAA	800-1600	75	80	1500	0.9	4.5	0.6	-40 ... +130	2	
SK 100 TAA	800-1600	100	80	2000	0.9	3.5	0.45	-40 ... +130	2	
SK 75 TAE 12	1200	75	80	1250	0.85	4.4	0.6	-40 ... +130	2	
SK 25 WT	800-1600	29	85	280	1.1	20	1.7	-40 ... +125	2	
SK 45 WT	800-1600	47	85	380	1	10	1.2	-40 ... +125	2	
SK 70 WT	800-1600	72	85	900	1	6	0.8	-40 ... +125	3	
SK 100 WT	800-1600	101	85	1350	0.9	4.5	0.6	-40 ... +125	3	
SK 35 BZ	800-1600	35	80	270	0.85	14	1.7	-40 ... +125	2	
SK 45 STA	800-1600	47	75	380	1	10	1.2	-40 ... +125	3	
SK 25 UT	800-1600	29	85	280	1.1	20	1.7	-40 ... +125	3	
SK 45 UT	800-1600	47	85	380	1	10	1.2	-40 ... +125	2	
SK 30 DTA	800-1600	25	80	900	1	6	1.7	-40 ... +150	3	
SK 60 DTA	800-1600	61	80	1350	0.9	0.6	0.6	-40 ... +125	3	
SK 80 DTA	800-1600	65	80	1800	0.9	3.5	1	-40 ... +150	3	

For detailed case drawings please see page 26

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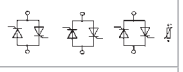
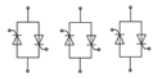
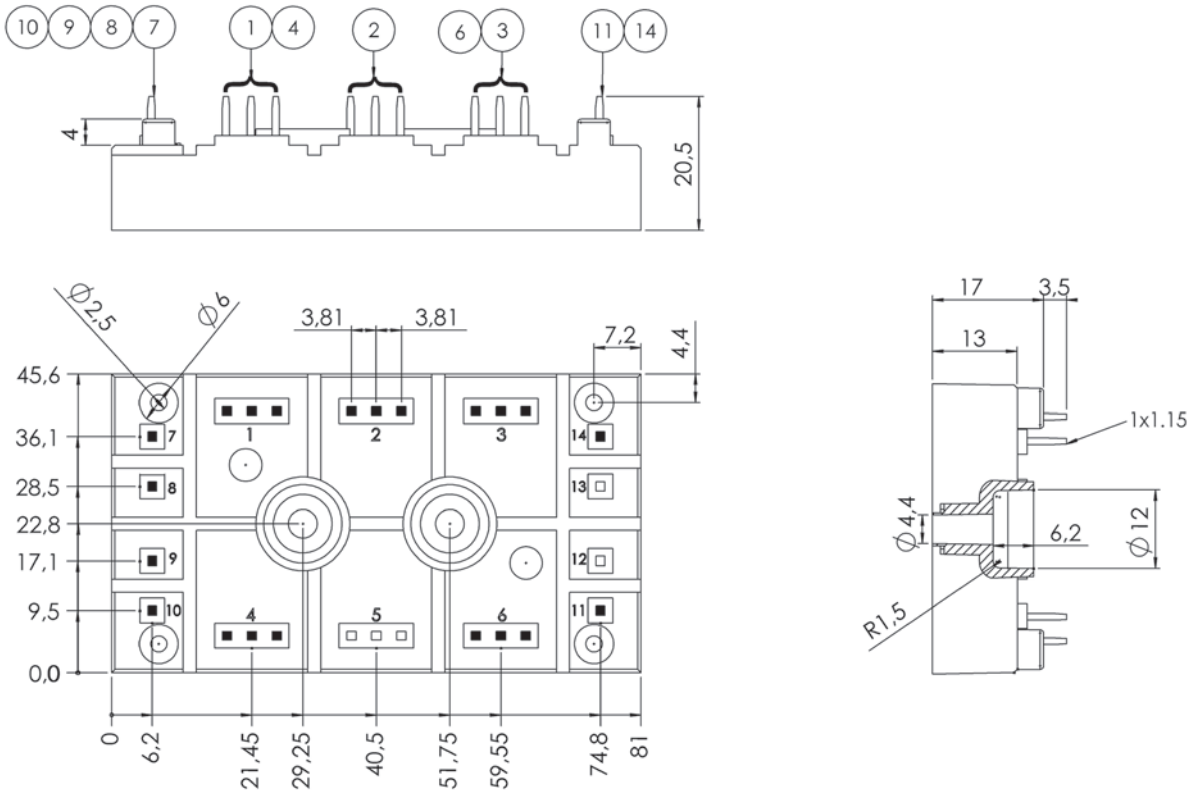
Modules - Thyristor / Diode - SEMIPONT

Type	V_{RRM} V_{DRM} V	I_{RMS} @T_C A	T_C °C	I_{TSM} I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-s)}$ cont. per chip K/W	T_j °C	Case	Circuit
SKUT 85 T	1200-1600	85	85	1050	1.1	6	0.85	-40 ... +125	5	
SKUT 115 T	1200-1600	105	85	1250	0.9	5	0.63	-40 ... +125	5	
SKUT 85	1200-1600	85	85	1050	1.1	6	0.85	-40 ... +125	5	
SKUT 115	1200-1600	105	85	1250	0.9	5	0.63	-40 ... +125	5	

Cases

SEMIPONT 5



Dimensions in mm

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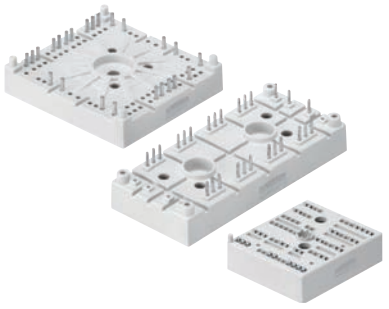
Bridge Rectifier

SEMITOP® / SEMIPONT® /MiniSKiiP®

rectifier with
brake chopper



600V
up to
1600V

I_D / I_C in A 0 10 20 30 40 50 75 100 200 300 400 500

SEMITOP® / SEMIPONT® / SEMiX®

three phase

400V
up to
1800V

I_D in A 0 10 20 30 40 50 75 100 200 300 400 500

SEMIPONT® / SEMITOP®

single phase

400V
up to
1800V

I_D in A 0 10 20 30 40 50 75 100 200 300 400 500

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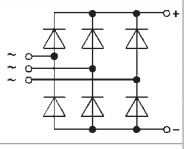
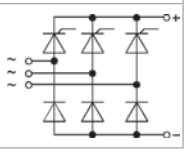
Modules - Bridge - SEMiX

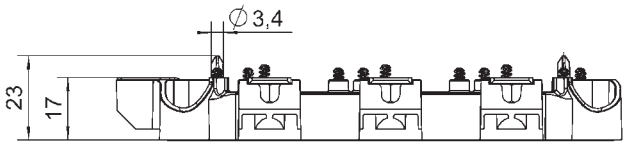
Type	V_{RRM} V_{DRM} V	I_D @T_C A	T_C °C	I_{TSM} I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-c)}$ per chip K/W	$R_{th(c-s)}$ per module K/W	T_j °C	Case	Circuit
SEMiX251D12Fs	1200	250	85	1330	1.2	7	0.26	0.04	-40 ... +150	13	
SEMiX291D16s [1]	1600	290	85	1380	0.83	4.6	0.45	0.04	-40 ... +150	13	
SEMiX341D16s	1600	340	85	2000	0.9	2.7	0.22	0.04	-40 ... +130	13	
SEMiX501D17Fs [1]	1700	489	85	2140	1.1	2.7	0.165	0.04	-40 ... +150	13	
SEMiX241DH16s	1600	240	85	1900	0.85	4	0.32	0.04	-40 ... +130	13	

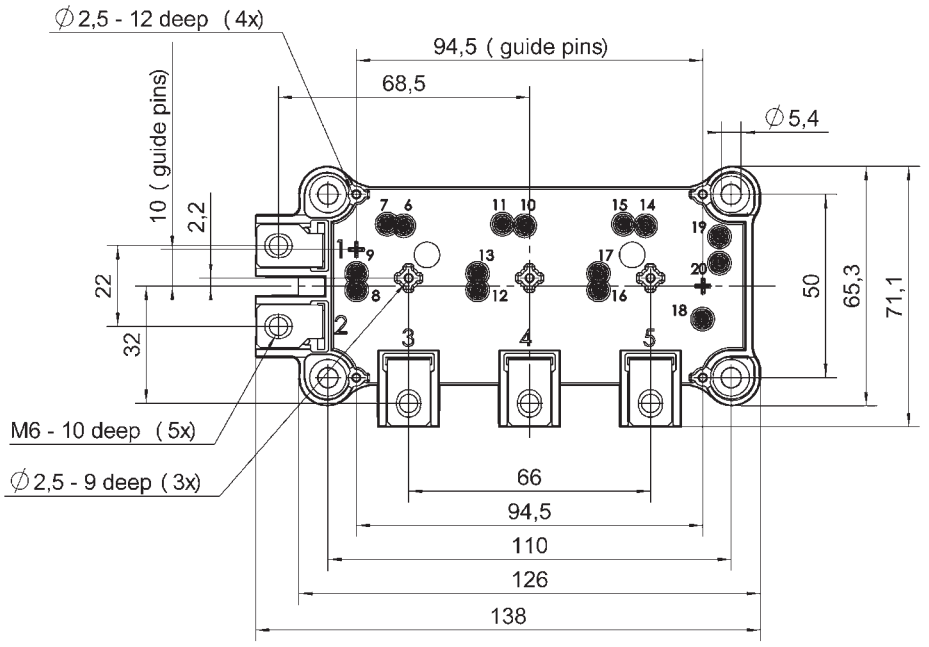
Footnotes

[1] New

Cases

SEMiX 13





Dimensions in mm

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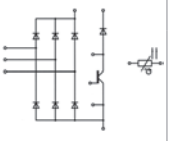
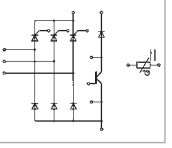
Modules - Bridge - MiniSKiiP

Type	IGBT						Diode				Rectifier		Case	Circuit
	I_C @T_S= 25°C	I_{Cnom}	$V_{CE(sat)}$ @T_j= 25°C typ.	E_{on}	E_{off}	$R_{th(j-s)}$	I_F @T_S= 25°C	V_F @T_j= 25°C typ.	E_{rr}	$R_{th(j-s)}$	I_{FSM} @T_S= 25°C	$R_{th(j-s)}$		
	A	A	V	mJ	mJ	K/W	A	V	mJ	K/W	A	K/W		
1200 V - IGBT 3 (Trench)														
SKiiP 28ANB16V1	118	105	1.7	13.1	13	0.4	118	1.60	11.2	0.55	1000	0.7	II 2	
SKiiP 39ANB16V1	157	140	1.7	19.9	17.2	0.3	167	1.50	16.2	0.4	1600	0.5	II 3	
SKiiP 28AHB16V1	118	105	1.7	14.4	13.3	0.4	118	1.60	10.8	0.55	1000	0.7	II 2	
SKiiP 39AHB16V1	157	140	1.7	19.9	17.3	0.3	167	1.50	16.2	0.4	1250	0.5	II 3	

For detailed case drawings please see page 21

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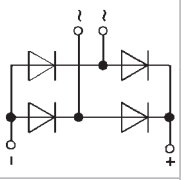
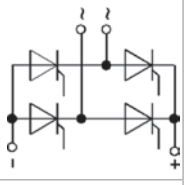
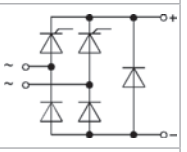
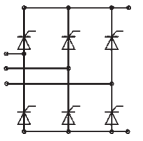
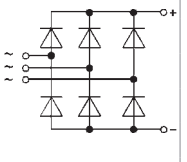
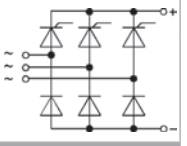
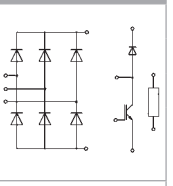
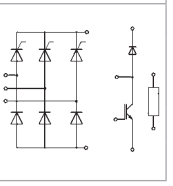
Modules - Bridge - SEMIPONT

Type	V_{RRM} V_{DRM} V	I_D @T_C A	T_C °C	I_{TSM} I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-c)}$ cont. per chip K/W	T_j °C	Case	Circuit
1 and 3 phase										
SKB 52	400-1800	50	99	425	0.85	8	1.5	-40 ... +150	3	
SKB 60	400-1600	60	88	850	0.85	5	1	-40 ... +125	2	
SKB 72	400-1800	70	101	640	0.85	5	1.1	-40 ... +150	3	
SKBT 40	800-1400	46	92	400	1	16	1	-40 ... +125	2	
SKCH 40	400-1600	40	92	400	1	16	1	-40 ... +125	2	
SKDT 60	400-1400	60	86	400	1	16	1	-40 ... +125	2	
SKDT 115	1200-1600	110	80	950	1.1	6	0.84	-40 ... +125	5	
SKDT 145	1200-1600	140	80	1250	0.9	5	0.6	-40 ... +125	5	
SKD 60	400-1600	60	102	850	0.85	5	1	-40 ... +125	2	
SKD 62	400-1800	60	110	425	0.85	8	1.5	-40 ... +150	3	
SKD 82	400-1800	80	110	640	0.85	5	1.1	-40 ... +150	3	
SKD 100	400-1600	100	93	1000	0.85	5	0.85	-40 ... +125	2	
SKD 110	800-1800	110	100	1000	0.85	4	0.9	-40 ... +150	4	
SKD 115	1200-1800	110	85	1150	0.8	7	1	-40 ... +150	5	
SKD 145	1200-1800	140	85	1700	0.8	4	0.8	-40 ... +150	5	
SKD 160	800-1800	205	100	1500	0.85	3	0.65	-40 ... +150	4	
SKD 210	900-1800	207	99	1600	0.85	3	0.5	-40 ... +150	4	
SKDH 100	800-1400	100	84	850	1	4.5	0.85	-40 ... +125	2	
SKDH 115	1200-1600	110	80	950	1.1	6	0.84	-40 ... +125	5	
SKDH 145	1200-1600	110	80	1250	0.9	5	0.63	-40 ... +125	5	
3 phase with brake chopper										
SKD 116/..-L105	1200-1600	110	85	1050	0.8	7	1	-40 ... +125	6	
SKD 116/..-L140	1200-1600	110	85	1050	0.8	7	1	-40 ... +125	6	
SKD 146/..-L105	1200-1600	140	85	1250	0.8	4	0.8	-40 ... +125	6	
SKD146/..-L140T4	1200-1600	140	85	1250	0.8	4	0.8	-40 ... +125	6	
SKDH116/..L105	1200-1600	110	85	1050	0.8	7	1	-40 ... +125	6	
SKDH116/..L140	1200-1600	110	85	1050	0.8	7	1	-40 ... +125	6	
SKDH146/..-L105	1200-1600	110	85	1250	0.8	4	0.8	-40 ... +125	6	
SKDH146/..-L140	1200-1600	110	85	1250	0.8	4	0.8	-40 ... +125	6	
SKDH 146/08-L200	800	140	80	1250	0.85	3	0.6	-40 ... +125	6	

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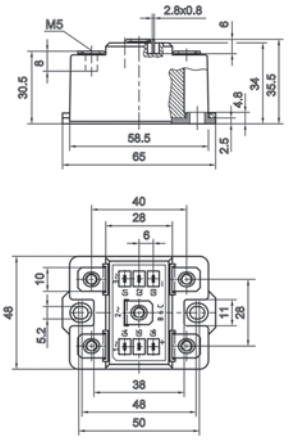
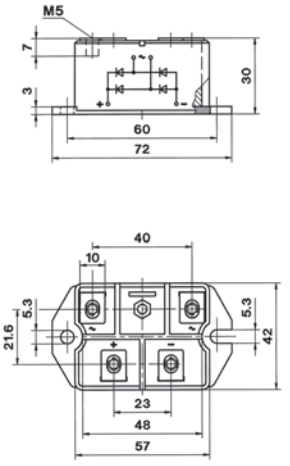
Modules - Bridge - SEMIPONT

Cases

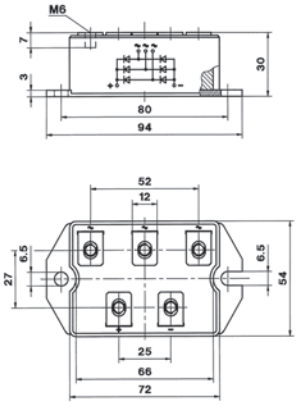
SEMIPONT 2



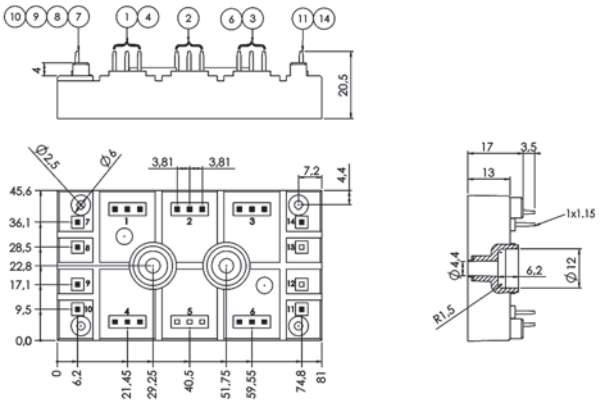
SEMIPONT 3



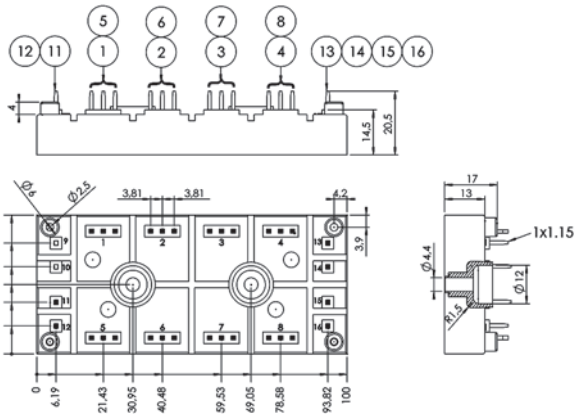
SEMIPONT 4



SEMIPONT 5



SEMIPONT 6



Dimensions in mm

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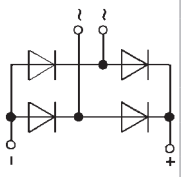
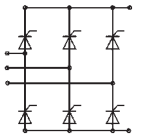
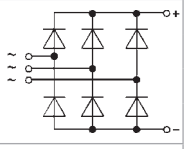
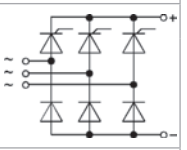
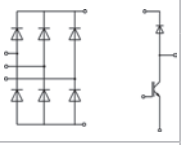
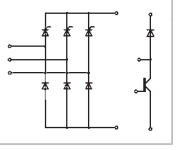
Modules - Bridge - SEMITOP

Type	V_{RRM} V_{DRM} V	I_D @T_S A	T_S °C	I_{TSM} I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-s)}$ per chip K/W	T_j °C	Case	Circuit
1 and 3 phase										
SK 50 B 06 UF	600	46	80	400	0.8	11	0.45	-40 ... +150	2	
SK 50 B	800-1600	51	80	270	0.8	13	1.7	-40 ... +150	2	
SK 55 B 06 F	600	54	80	440	0.9	16	1.2	-40 ... +150	2	
SK 55 B 12 F	1200	57	80	550	1.2	22	0.9	-40 ... +150	2	
SK 70 B	800-1600	68	80	560	0.8	11	1.2	-40 ... +150	2	
SK 100 B	800-1600	100	80	890	0.83	3.9	1	-40 ... +150	2	
SK 40 DT	800-1600	42	80	280	1.1	20	1.7	-40 ... +125	3	
SK 70 DT	800-1600	68	80	380	1	10	1.2	-40 ... +125	3	
SK 55 D	800-1600	55	80	200	0.8	13	2.15	-40 ... +150	2	
SK 70 D	800-1600	70	80	270	0.8	13	1.7	-40 ... +150	2	
SK 80 D 12F	1200	80	80	550	1.2	22	0.9	-40 ... +150	3	
SK 95 D	800-1600	95	80	560	0.8	11	1.2	-40 ... +150	2	
SK 40 DH	800-1600	42	80	270	1.1	20	1.7	-40 ... +150	3	
SK 70 DH	800-1600	68	80	270	1	10	1.2	-40 ... +125	3	
SK 55 DGL 126	1200	55	80	370	0.8	13	2	-40 ... +150	3	
SK 95 DGL 126	1600	96	80	700	0.8	11	1.2	-40 ... +150	3	
SK 170 DHL 126	1200	170	70	1000	0.8	7	0.51	-40 ... +150	4	
SK 200 DHL 066	600	210	70	1250	0.8	4	0.52	-40 ... +150	4	

For detailed case drawings please see page 26

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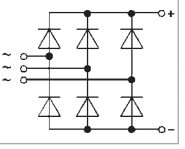
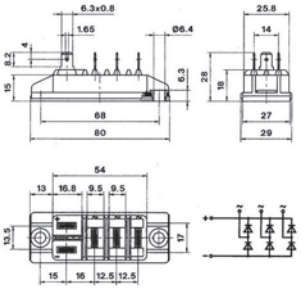
Modules - Bridge - Power Bridge

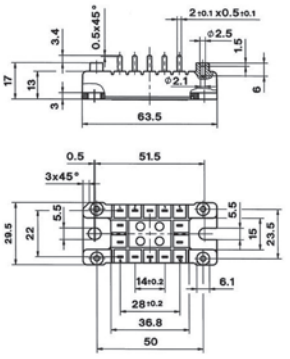
Type	V_{RRM} V_{DRM} V	I_D @T_C A	T_C °C	I_{FSM} @T_{jmax} A	$V_{T(TO)}$ @T_{jmax} V	r_T @T_{jmax} mΩ	$R_{th(j-s)}$ cont. per chip K/W	T_j °C	Case	Circuit
3 phase										
SKD 33	400-1800	33	110	240	0.8	18	2.5	-40 ... +150	G55	
SKD 51	400-1800	50	127	700	0.8	8.5	1.1	-40 ... +150	G51	
SKD 53	400-1800	53	100	270	0.8	13	1.9	-40 ... +150	G55	
SKD 83	400-1800	83	95	560	0.8	7.5	1.4	-40 ... +150	G55	

Cases

G 51



G 55



Dimensions in mm

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Discretes - Chips - SEMICELL

Type	V_{RRM}	I_F @T_j= 150°C	I_{FSM} @T_j= 150°C 10ms	V_F @T_j= 25°C	I_F @ V_F T_j= 25°C	Q_{rr} @T_j= 125°C
	V	A	A	V	A	µC
600 V - Freewheeling Diodes CAL I3 Fast						
SKCD 06 C 060 I3	600	15	-	1.35	10	0.7
SKCD 09 C 060 I3	600	20	100	1.35	15	1.2
SKCD 18 C 060 I3	600	30	200	1.35	25	2.5
SKCD 31 C 060 I3	600	50	440	1.35	50	3.3
SKCD 47 C 060 I3	600	80	720	1.35	85	5.5
SKCD 61 C 060 I3	600	100	1000	1.35	110	7
SKCD 81 C 060 I3	600	150	1260	1.35	155	8.5
SKCD 121 C 060 I3	600	210	2100	1.35	245	10.7

Type	V_{RRM}	I_F @T_j= 175°C	I_{FSM} @T_j= 150°C 10ms	V_F @T_j= 25°C	I_F @ V_F T_j= 25°C	Q_{rr} @T_j= 150°C
	V	A	A	V	A	µC
600 V - Freewheeling Diodes CAL High Density						
SKCD 04 C 060 I HD	600	10	65	1.35	7	0.89
SKCD 06 C 060 I HD	600	20	95	1.35	12	0.93
SKCD 09 C 060 I HD	600	30	160	1.35	19	1.6
SKCD 16 C 060 I HD	600	50	320	1.35	37	5.64
SKCD 24 C 060 I HD	600	75	395	1.35	60	7.8
SKCD 42 C 060 I HD	600	100	810	1.35	110	14
SKCD 61 C 060 I HD	600	150	1080	1.35	160	22
SKCD 81 C 060 I HD	600	200	1310	1.35	230	32

Type	V_{RRM}	I_F @T_j= 175°C	I_{FSM} @T_j= 150°C 10ms	V_F @T_j= 25°C	I_F @ V_F T_j= 25°C	E_{off} @T_j= 150°C
	V	A	A	V	A	mJ
650 V - Freewheeling Diodes CAL I4 Fast						
SKCD 24 C 065 I4F	650	50	460	1.30	39	1.1
SKCD 42 C 065 I4F	650	100	680	1.30	73	2.2
SKCD 61 C 065 I4F	650	150	1100	1.30	109	3.8
SKCD 81 C 065 I4F	650	200	1290	1.30	148	5.8

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Discretes - Chips - SEMICELL

Type	V_{RRM}	I_F @T_j= 150°C	I_{FSM} @T_j= 150°C 10ms	V_F @T_j= 25°C	I_F @ V_F T_j= 25°C	Q_{rr} @T_j= 125°C
	V	A	A	V	A	µC
1200 V - Freewheeling Diodes CAL I3 Fast						
SKCD 11 C 120 I3	1200	15	130	2.00	10	1.6
SKCD 18 C 120 I3	1200	25	200	2.00	15	3
SKCD 23 C 120 I3R	1200	30	270	2.00	25	3.8
SKCD 31 C 120 I3	1200	40	370	2.00	35	5.3
SKCD 47 C 120 I3	1200	55	600	2.00	55	7.5
SKCD 61 C 120 I3	1200	75	800	2.00	70	11
SKCD 81 C 120 I3	1200	100	1100	2.00	100	16.5
SKCD 121 C 120 I3	1200	150	1600	2.00	155	24

Type	V_{RRM}	I_F @T_j= 150°C	I_{FSM} @T_j= 150°C 10ms	V_F @T_j= 25°C	I_F @ V_F T_j= 25°C	Q_{rr} @T_j= 125°C
	V	A	A	V	A	µC
1200 V - Freewheeling Diodes CAL High Density						
SKCD 06 C 120 I HD	1200	6	60	1.50	5	1.24
SKCD 11 C 120 I HD	1200	15	140	1.50	12	2.9
SKCD 14 C 120 I HD	1200	20	170	1.50	15	4
SKCD 18 C 120 I HD	1200	25	200	1.50	20	5
SKCD 31 C 120 I HD	1200	55	480	1.50	45	11
SKCD 47 C 120 I HD	1200	85	700	1.50	70	17.4
SKCD 61 C 120 I HD	1200	115	900	1.50	90	24.5
SKCD 81 C 120 I HD	1200	160	1150	1.50	130	34.4

Type	V_{RRM}	I_F @T_j= 175°C	I_{FSM} @T_j= 150°C 10ms	V_F @T_j= 25°C	I_F @ V_F T_j= 25°C	E_{off} @T_j= 150°C
	V	A	A	V	A	mJ
1200 V - Freewheeling Diodes CAL I4 Fast						
SKCD 08 C 120 I4F	1200	8	36	2.33	8	0.4
SKCD 11 C 120 I4F	1200	15	65	2.38	15	0.6
SKCD 16 C 120 I4F	1200	25	100	2.41	25	1
SKCD 22 C 120 I4F	1200	35	170	2.30	35	1.6
SKCD 31 C 120 I4F	1200	50	270	2.22	50	2.6
SKCD 46 C 120 I4F	1200	75	430	2.17	75	4.2
SKCD 46 C 120 I4F R	1200	75	430	2.17	75	4.2
SKCD 53 C 120 I4F	1200	100	550	2.20	100	5.4
SKCD 81 C 120 I4F	1200	150	900	2.14	150	8.7

Type	V_{RRM}	I_F @T_j= 175°C	I_{FSM} @T_j= 150°C 10ms	V_F @T_j= 25°C	I_F @ V_F T_j= 25°C	E_{off} @T_j= 150°C
	V	A	A	V	A	mJ
1200 V - Freewheeling Diodes CAL I4 High Density						
SKCD 46 C 120 I4 HD	1200	75	430	1.72	75	6.2
SKCD 53 C 120 I4 HD	1200	100	550	1.77	100	8
SKCD 81 C 120 I4 HD	1200	150	900	1.72	150	13.4

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Discretes - Chips - SEMICELL

Type	V_{RRM} V	I_F @T_j= 150°C A	I_{FSM} @T_j= 150°C 10ms A	V_F @T_j= 25°C V	I_F @ V_F T_j= 25°C A	Q_{rr} @T_j= 125°C µC
1700 V - Freewheeling Diodes CAL Fast						
SKCD 47 C 170 I	1700	55	550	2.05	55	15
SKCD 61 C 170 I	1700	75	720	2.05	75	19

Type	V_{RRM} V	I_F @T_j= 150°C A	I_{FSM} @T_j= 150°C 10ms A	V_F @T_j= 25°C V	I_F @ V_F T_j= 25°C A	Q_{rr} @T_j= 125°C µC
1700 V - Freewheeling Diodes CAL High Density						
SKCD 47 C 170 I HD	1700	75	650	1.73	75	19
SKCD 61 C 170 I HD	1700	100	710	1.73	100	26
SKCD 81 C 170 I HD	1700	150	1070	1.73	150	44

Type	V_{RRM} V	I_F @T_j= 175°C A	I_{FSM} @T_j= 150°C 10ms A	V_F @T_j= 25°C V	I_F @ V_F T_j= 25°C A	E_{off} @T_j= 150°C mJ
1700 V - Freewheeling Diodes CAL I4 Fast						
SKCD 28 C 170 I4F [1)]	1700	40	280	1.71	23	12
SKCD 46 C 170 I4F [1)]	1700	75	450	1.71	43	17
SKCD 56 C 170 I4F [1)]	1700	100	580	1.71	57	22.2
SKCD 81 C 170 I4F [1)]	1700	150	860	1.71	89	31.5

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Discretes - Chips - SEMICELL

Type	V_{RRM} V	$I_{F(DC)}$ @T_j= 150°C A	I_{FSM} @T_j= 150°C 10ms A	V_F @T_j= 25°C V	I_F @ V_F T_j= 25°C A	t_{rr} @T_j= 25°C µs
1600 V - Rectifier						
SKR 3,5 Qu bond [5]	1600	25	200	1	8	20
SKR 4,2 Qu bond [5]	1600	35	270	1	13	20
SKR 4,8 Qu bond [5]	1600	45	350	1	18	21
SKR 5,6 Qu bond [5]	1600	50	490	1	25	22
SKR 6,2 Qu bond [5]	1600	65	600	1	33	22
SKR 7,0 Qu bond [5]	1600	75	890	1	45	23
SKR 8,9 Qu bond [5]	1600	140	1380	1	77	26
SKR 10,3 Qu bond [5]	1600	170	1650	1	106	29
SKR 12,4 Qu bond [5]	1600	235	2300	1	160	34
SKR 15,2 Qu bond [5]	1600	330	3800	1	245	42
SKR 16,3 x 18,2 Qu bond [5]	1600	365	5100	1	320	49
SKR 18,2 Qu bond [5]	1600	380	5500	1	360	53
SKR 22,4 Qu bond [5]	1600	770	9450	1	550	72

Type	V_{RRM} V_{DRM} V	$I_{T(DC)}$ @T_C=80°C, T_j=130°C A	I_{TSM} @T_j= 130°C 10ms A	V_{GT} @T_j= 25°C V	I_{GT} @T_j= 25°C mA	t_q @T_j= 130°C µs
1600 V - Thyristor Central Gate						
SKT 8,9 Qu ZG bond. [5]	1600	105	1000	1.98	100	150
SKT 10,3 Qu ZG bond. [5]	1600	125	1250	1.98	100	150
SKT 12,4 Qu ZG bond. [5]	1600	165	1800	1.98	100	150
SKT 13,5 Qu ZG bond. [5]	1600	185	2300	1.98	100	135
SKT 15,2 Qu ZG bond. [5]	1600	215	3200	1.98	100	150
SKT 18,2 Qu ZG bond. [5]	1600	250	5000	1.98	100	150
SKT 24,3 Qu ZG bond. [5]	1600	480	8200	1.98	150	150
1600 V - Thyristor Corner Gate						
SKT 5,6 Qu RG bond. [5]	1600	60	280	1.98	100	150
SKT 7,0 Qu RG bond. [5]	1600	75	450	1.98	100	150
SKT 8,9 Qu RG bond. [5]	1600	105	1000	1.98	100	150
SKT 10,3 Qu RG bond. [5]	1600	125	1250	1.98	100	150
SKT 12,4 Qu RG bond. [5]	1600	165	1800	1.98	100	150

Footnotes

[1] New

[5] solderable top metallization on request

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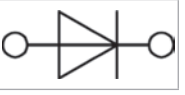
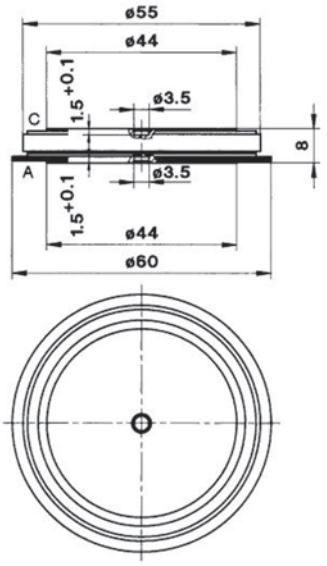
Discretes - Diodes - Capsule

Type	V_{RRM} V	I_{FAV} @T_C A	T_C °C	I_{FSM} @T_j= 25°C A	V_F @ I_F T_j= 25°C V	I_F—V_F A	$R_{th(j-c)}$ per chip K/W	T_j °C	Case	Circuit
SKN 6000	200-600	6000	85	60000	1.30	14000	0.012	-40 ... +180	E35	

Cases

E35



Dimensions in mm

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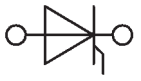
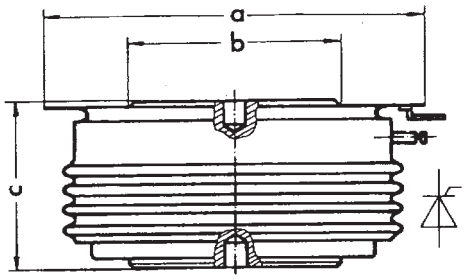
Discretes - Thyristor - Capsule

Type	V_{RRM} V_{DRM} V	I_{TAV} @T_C A	T_C °C	I_{TSM} @T_j= 25°C A	V_T @ I_T T_j= 25°C V	I_T–V_T A	$R_{th(j-c)}$ @sin. 180° K/W	T_j °C	Case	Circuit
SKT 340	1200-1800	340	82	5700	1.9	1000	0.072	-40 ... +125	B8	
SKT 551	1200-1800	550	85	9000	1.65	1500	0.047	-40 ... +125	B11	
SKT 760	1200-1800	760	80	15000	1.65	2400	0.04	-40 ... +125	B10	
SKT 1200	1200-1800	1200	85	30000	1.65	3600	0.022	-40 ... +125	B14	

Cases

B8 ... B14



Cases	a	b	c
B 8	41	19	14
B 10	57,3	34	26
B 11	41	25	14
B 14	73	47	26

Dimensions in mm

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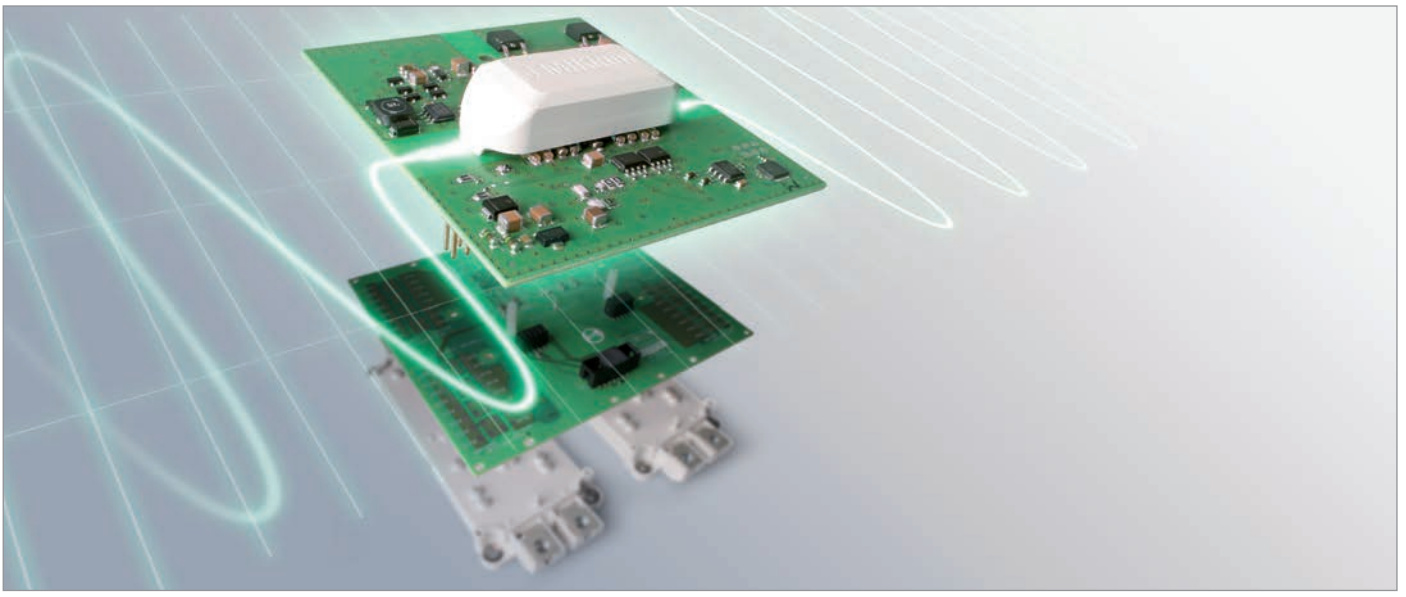

Robust IGBT Driver

Applications

The new SKYPER 42 LJ offers the benefits of digital signal consistency while maintaining full performance. Ambitious applications such as medical or large drives are securely powered. SKYPER 32 is the perfect solution for industrial drives and process control applications. Boasting a mean time between failures of more over five million hours, the service life of this driver is triple that of standard IGBT drivers. The SKYPER platform can drive 600 V, 1200 V and 1700 V IGBT modules.

Product range driver cores

SKYPER 32/ PRO/ UL	1W
SKYPER 42 LJ	2W
SKYPER 42	4W
SKYPER 52	9W

Benefits

Robust driving technology

- Adjustable filter time for optimised performance
- High signal accuracy with +/- 1.25 ns jitter
- Safe signal transmission with rectangle pulses and seperated channels
- Low coupling capacitance with 100 kV/dt ruggedness
- Steady stabilised gate voltage for safe switching characteristics
- Safe gate control with SoftOff and adjustable failure management
- EMC with unique interlayer connection and short-pulse suppression
- Adapter boards for easy paralleling of SEMIKRON modules
- Assembly service for gate resistors and V_{CE} components for adaptor boards on request
- Adapter boards with integrated DC link measurement and excess temperature control

www.semikron.com/skyper

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Driver Electronics - SEMIDRIVER

Type	Channels	V_{CE} V	$V_{G(on)}$ V	$V_{G(off)}$ V	$I_{outPEAK}$ A	$Q_{out/pulse}$ µC	f_{max} kHZ	V_{isolIO} kV	dv/dt kV/µs
Driver									
SKHI 10/12 R	1	1200	15	-8	8	9.6	100	2500	75
SKHI 10/17 R	1	1700	15	-8	8	9.6	100	4000	75
SKHI 23/12 R	2	1200	15	-8	8	4.8	100	2500	75
SKHI 23/17 R	2	1700	15	-8	8	4.8	100	4000	75
SKHIT 01 R [5]	3	528	-	-	-	-	10	2500	-
Driver Core									
SKHI 21A R [6]	2	1200	15	0	8	4	50	2500	50
SKHI 22 A/B H4 R	2	1700	15	-7	8	4	50	4000	50
SKHI 22 A/B R	2	1200	15	-7	8	4	50	2500	50
SKHI 24 R	2	1700	15	-8	15	5	50	4000	50
SKYPER 32 PRO R	2	1700	15	-7	15	6.3	50	4000	50
SKYPER 32 PRO R UL	2	1700	15	-7	15	6.3	50	4000	50
SKYPER 32 R	2	1700	15	-7	15	2.5	50	4000	50
SKYPER 32 R UL	2	1700	15	-7	15	2.5	50	4000	50
SKYPER 42 R	2	1700	15	-8	30	50	100	4000	100
SKYPER 52 R	2	1700	15	-15	50	100	100	4000	100
SKHI 61 R	6	900	14.9	-6.5	2	1	50	2500	15
SKHI 71 R	7	900	14.9	-6.5	2	1	50	2500	15
Adaptor Board									
Board 1 SKYPER 32 R	2	1700	15	-7	15	2.5	50	4000	50
Board 1 SKYPER 32PRO R	2	1700	15	-7	15	6.3	50	4000	50
Board 2 // 4S SKYPER 42 R	2	1200	15	-8	30	50	100	4000	100
Board 2 generic SKYPER 42 R	2	1700	15	-8	30	50	100	4000	100
Board 2//3S SKYPER 42 R	2	1700	15	-8	30	50	100	4000	100
Board 2S SKYPER 32 PRO R Gold	2	1700	15	-7	15	6.3	50	4000	50
Board 2S SKYPER 32 R Gold	2	1700	15	-7	15	2.5	50	4000	50
Board 3S SKYPER 32 PRO R Gold	2	1700	15	-7	15	6.3	50	4000	50
Board 3S SKYPER 32 R Gold	2	1700	15	-7	15	2.5	50	4000	50
Board 4S SKYPER 32 PRO R Gold	2	1700	15	-7	15	6.3	50	4000	50
Board 4S SKYPER 32 R Gold	2	1700	15	-7	15	2.5	50	4000	50
Board 63 GB SKYPER 42 R	2	1700	15	-8	30	50	100	4000	100
Board 93 GB SKYPER 42 R	2	1700	15	-8	30	50	100	4000	100

Footnotes

[5] Thyristor Driver

[6] MOSFET Driver

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Systems for vehicle applications

SKAI®2 IGBT Inverter

600V up to 1200V

I_{nom} in A rms 150 200 300 400

SKAI®2 MOSFET Single Inverter

100V up to 200V

I_{nom} in A rms 150 200 300 400 450

SKAI®2 MOSFET Dual Inverter

100V up to 200V

I_{nom} in A rms 150 200 300 400 450

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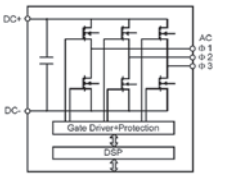
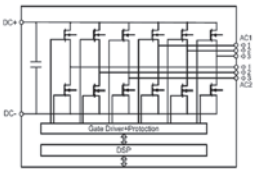
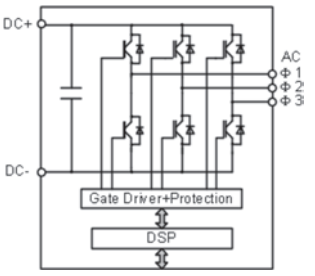
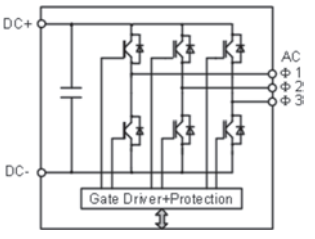
Systems - SKAI2

Type	$V_{battery\ (max)}$ V	I_{nom} A rms	Topology	Cooling	DSP	Case	Circuit
MOSFET - Three-phase inverter							
SKAI 60 A2 MD10-P [1]	72	365	3-Phase	Baseplate	Yes	3	
SKAI 70 A2 MD15-W [1]	115	450	3-Phase	Liquid	Yes	2	
SKAI 50 A2 MD20-L [1]	160	300	3-Phase	Forced Air	Yes	1	
SKAI 50 A2 MD20-W [1]	160	350	3-Phase	Liquid	Yes	2	
SKAI 70 A2 MM15-L [1]	115	250	Dual 3-Phase	Forced Air	Yes	4	
SKAI 70 A2 MM15-P [1]	115	250	Dual 3-Phase	Baseplate	Yes	6	
SKAI 70 A2 MM15-W [1]	115	300	Dual 3-Phase	Liquid	Yes	5	
SKAI 50 A2 MM20-L [1]	160	200	Dual 3-Phase	Forced Air	Yes	4	
SKAI 50 A2 MM20-W [1]	160	250	Dual 3-Phase	Liquid	Yes	5	
IGBT - Three-phase inverter							
SKAI 90 A2 GD06-WCI [1]	450	300	3-Phase	Liquid	Yes	7	
SKAI 45 A2 GD12-WCI [1]	800	300	3-Phase	Liquid	Yes	7	
SKAI 90 A2 GD06-WDI [1]	450	300	3-Phase	Liquid	No	7	
SKAI 45 A2 GD12-WDI [1]	800	300	3-Phase	Liquid	No	7	

footnotes

[1] New

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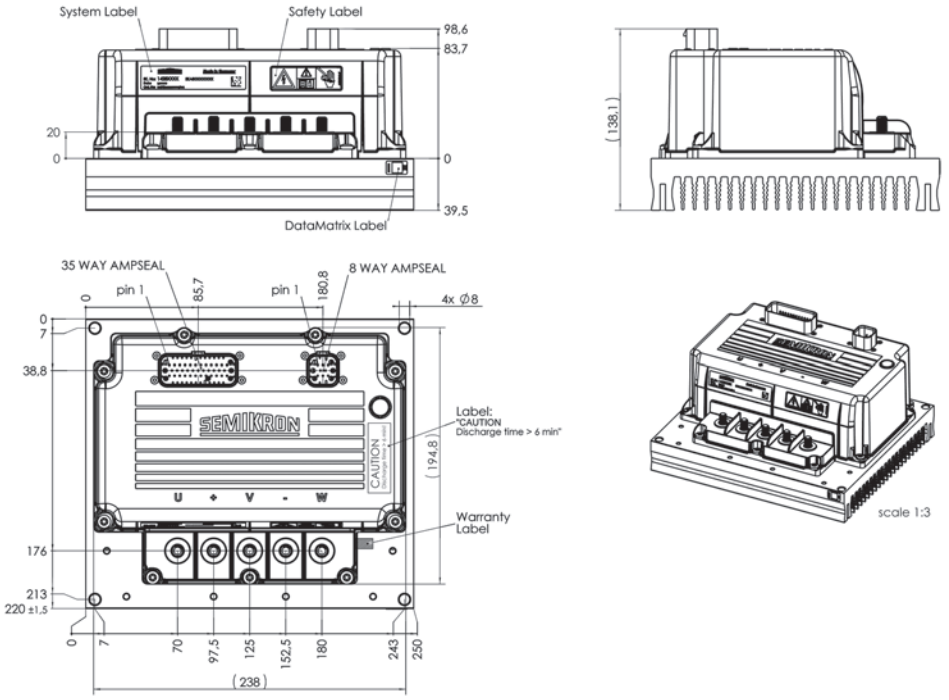
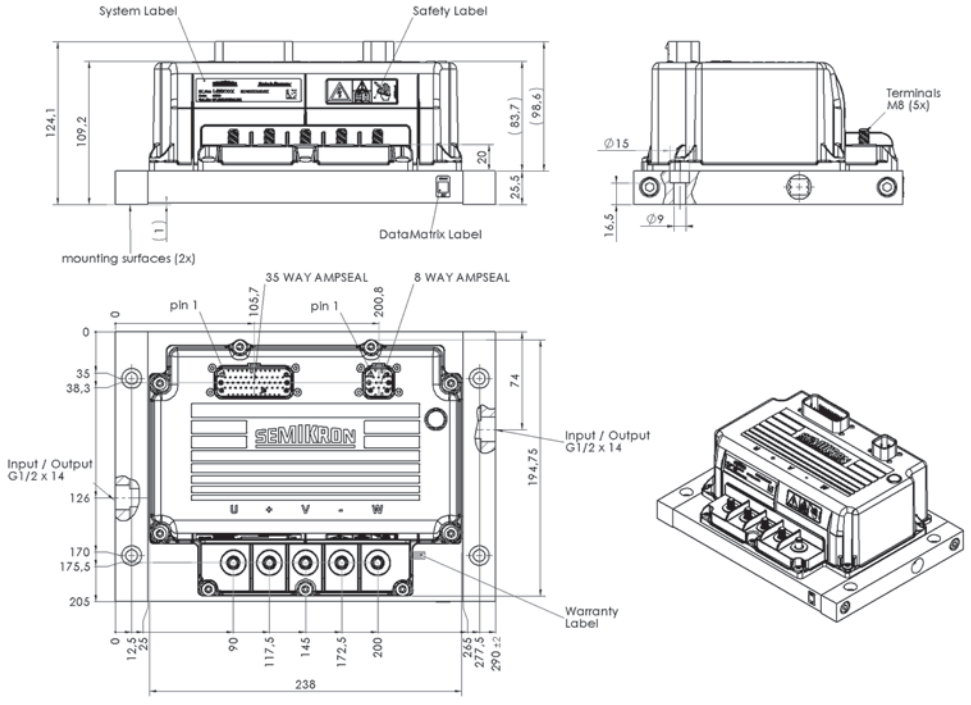
Cases

Case 1



Case 2



Dimensions in mm

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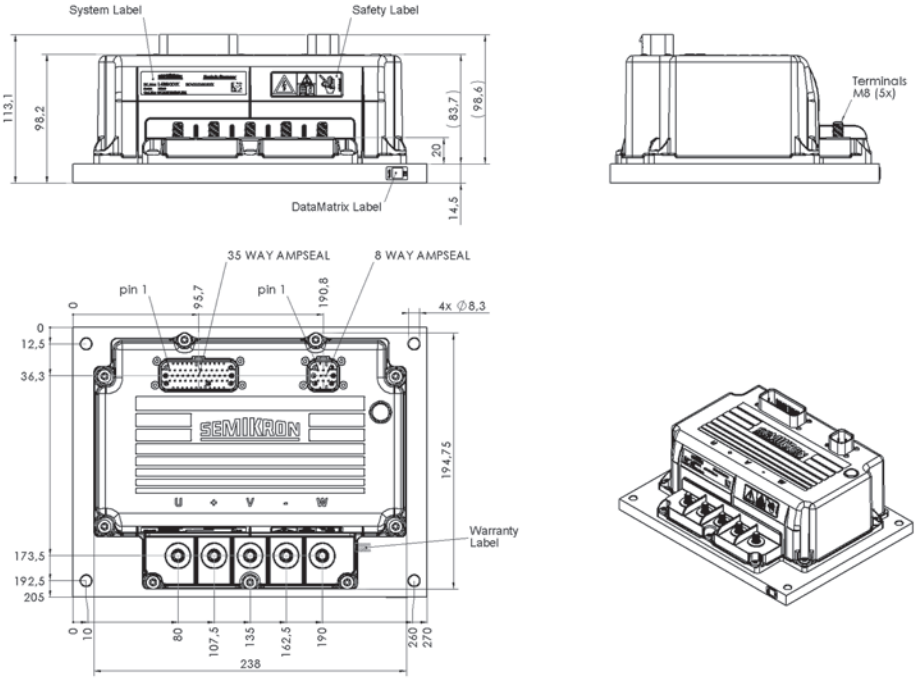
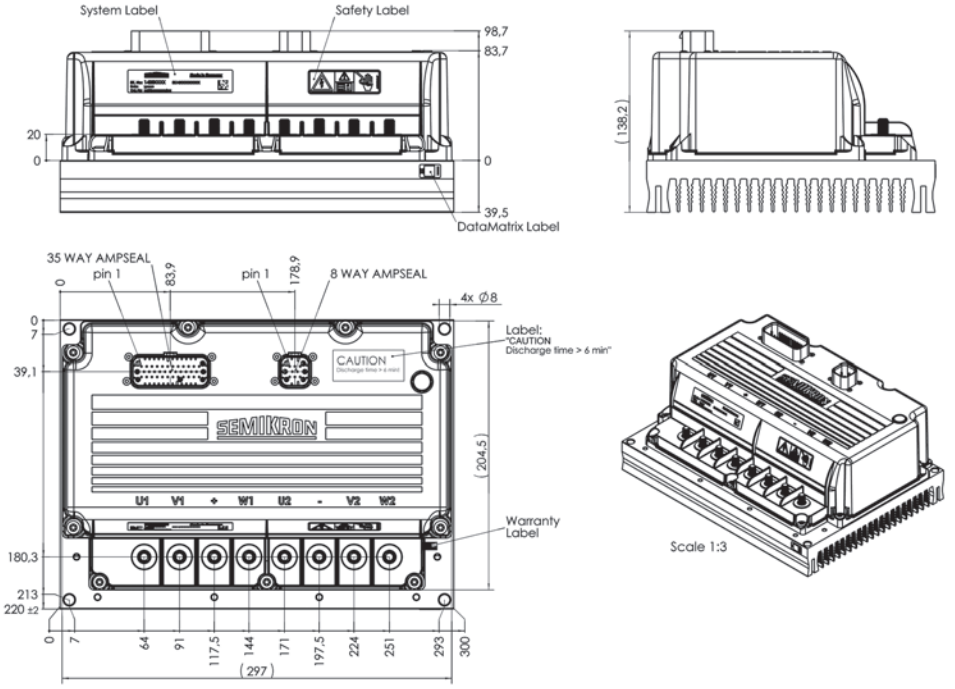
Systems - SKAI2

Cases

Case 3



Case 4



Dimensions in mm

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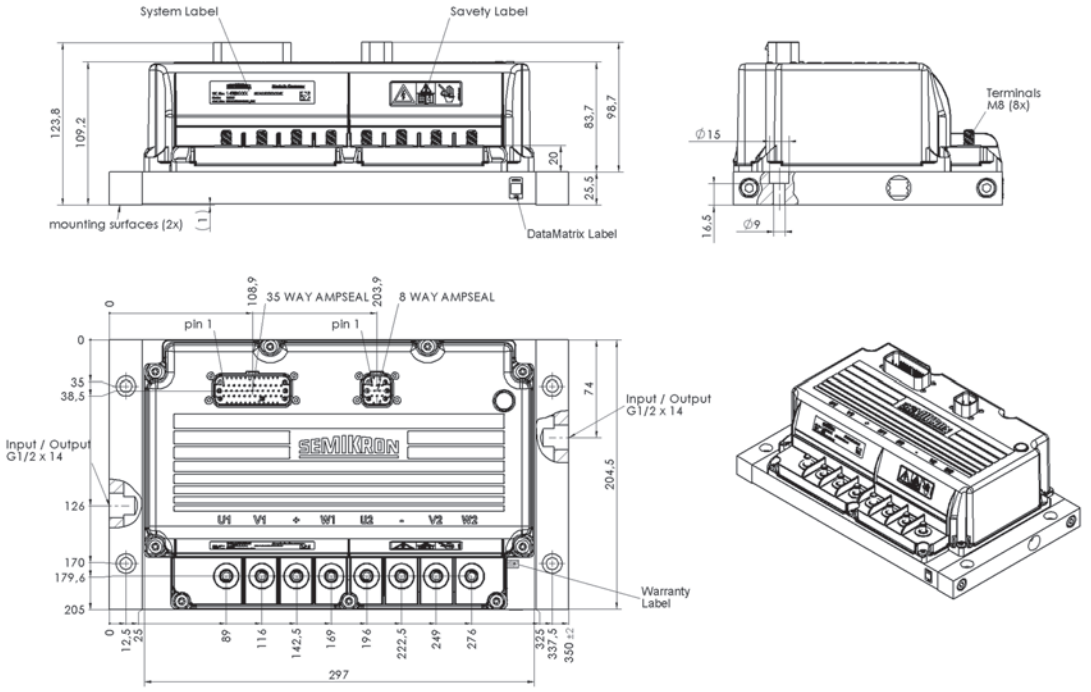
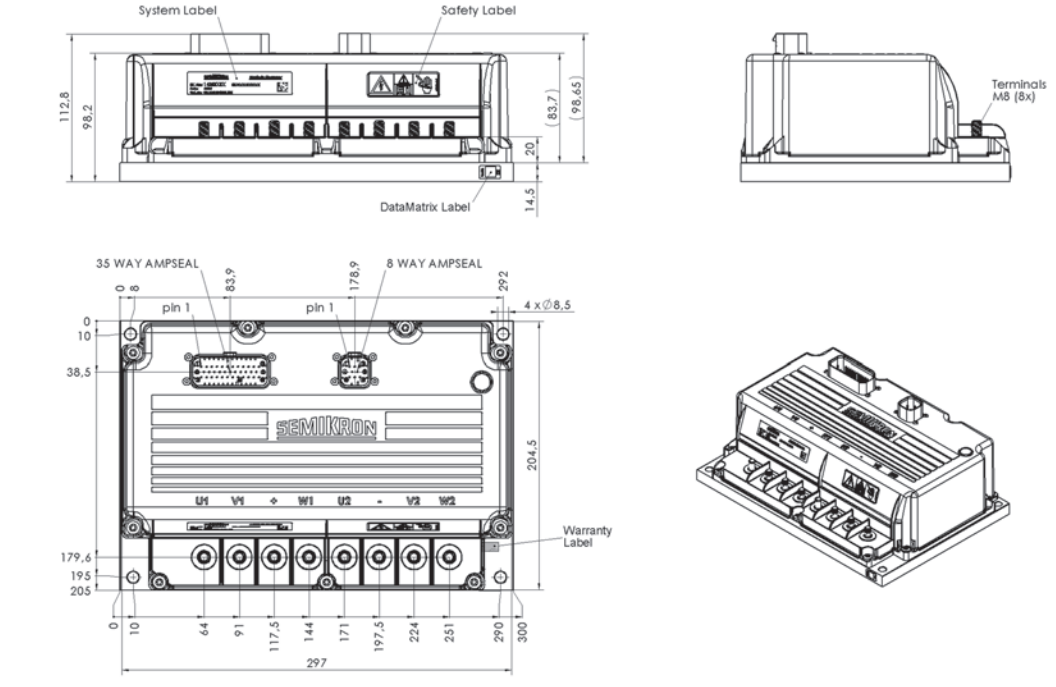
Cases

Case 5



Case 6



Dimensions in mm

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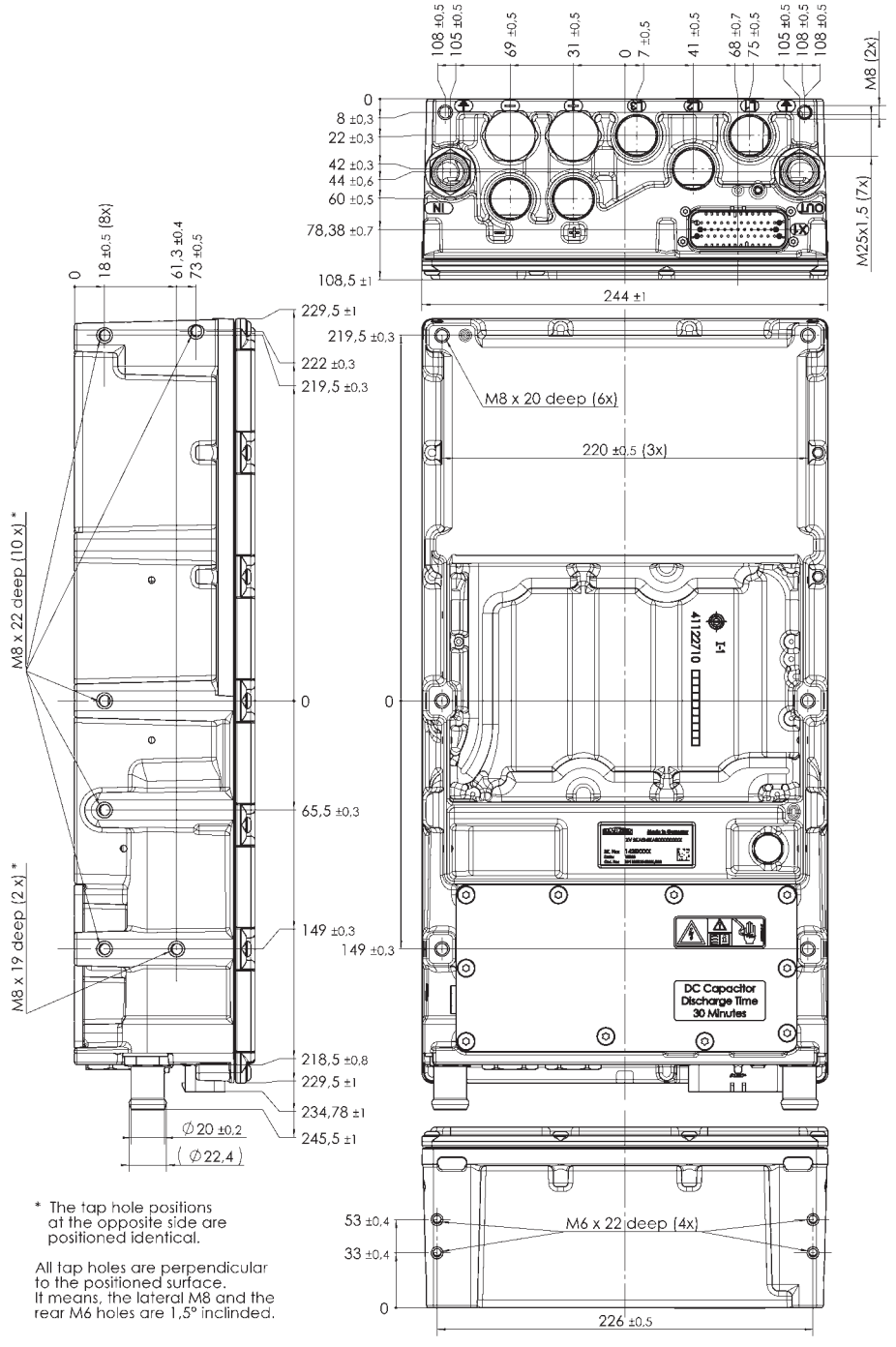
Systems - SKAI2

Cases

Case 7



* The tap hole positions at the opposite side are positioned identical.

All tap holes are perpendicular to the positioned surface. It means, the lateral M8 and the rear M6 holes are 1,5° inclinded.

Dimensions in mm

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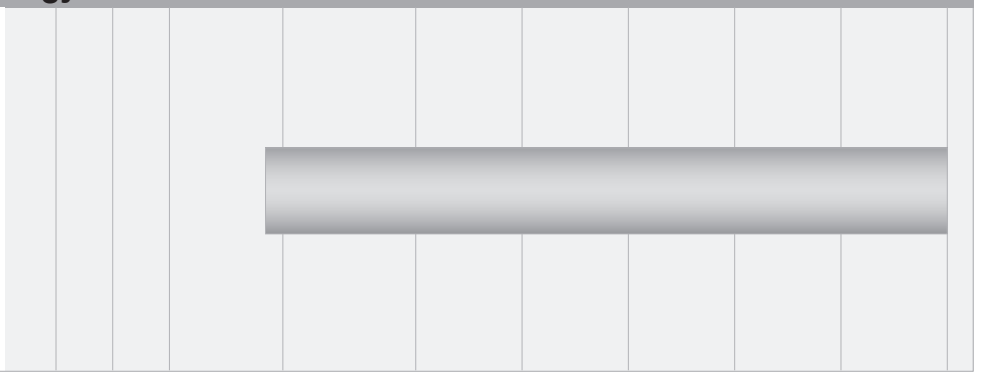
Solutions - IGBT Platforms

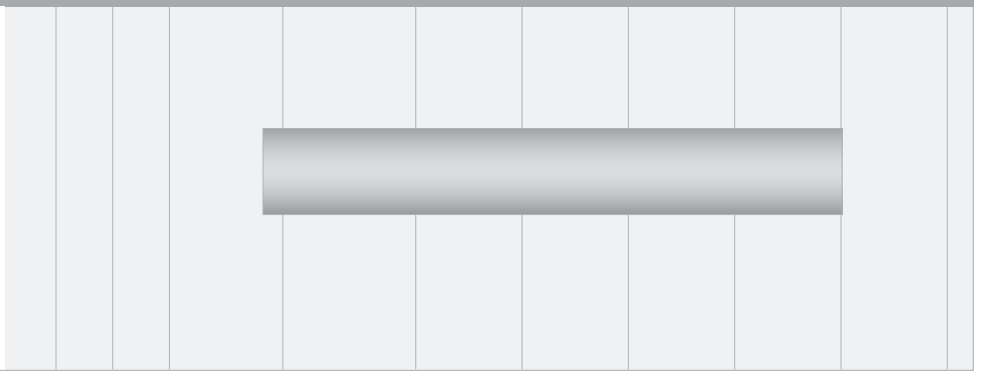
SEMISTACK Renewable Energy

Synchronus wind generators
Double-fed wind generators
Solar inverters



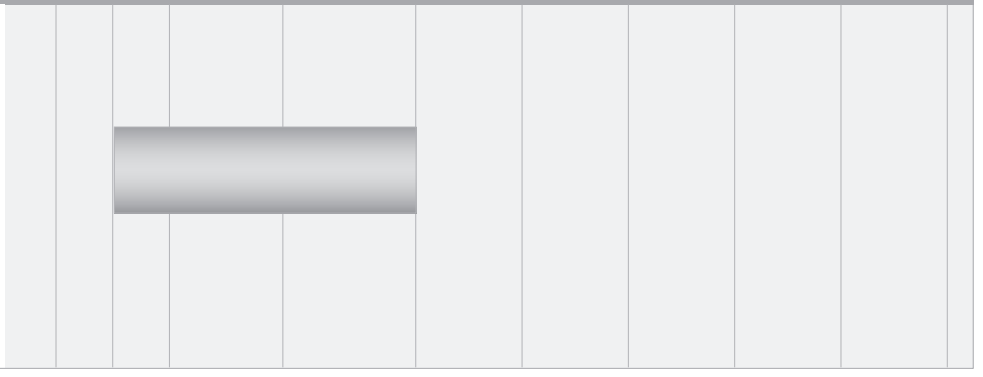
SKiiPRACK

Synchronus wind generators
Double-fed wind generators
High power AC drives



SEMIKUBE

Solar inverters
Pump & compressor drives



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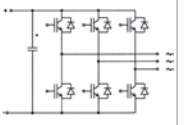
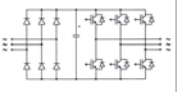
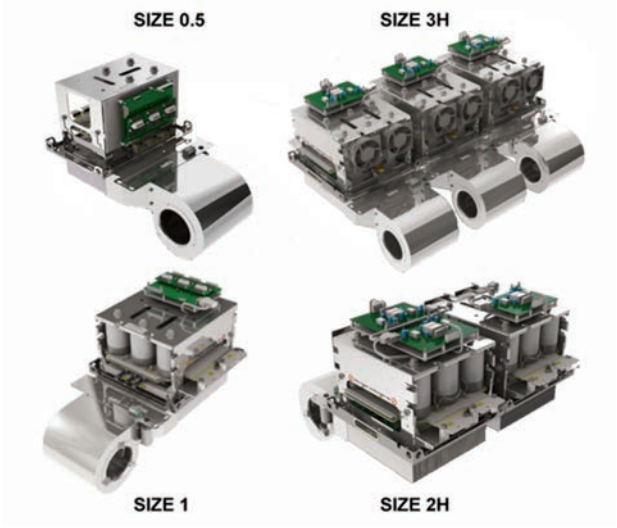
Solutions - SEMIKUBE

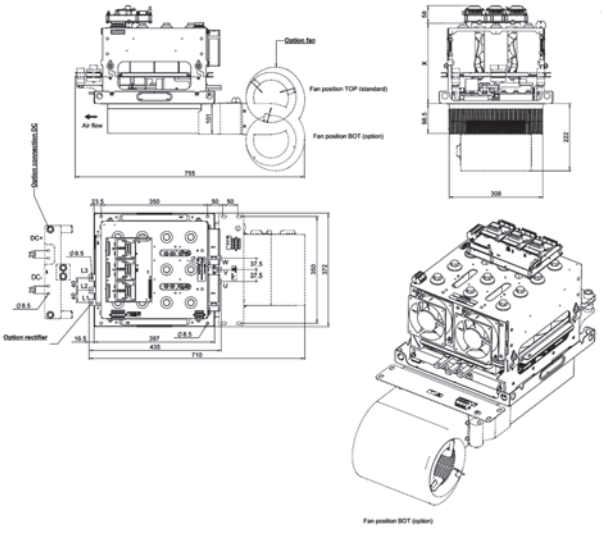
Type	V_{AC} V	V_{DC} V	Current A	Component Family	Cooling	Heatsink profile	Iso-lated	Circuit
Three-phase inverter								
IGD-1-424-P1N4-DL-FA	460	750	200	SEMITRANS	Forced-air cooled	PX 308	yes	
IGD-2-424-P1N6-DH-FA	460	750	350	SEMITRANS	Forced-air cooled	PX 308	yes	
IGD-4-424-P1F7-BL-FA	460	750	750	SEMITRANS	Forced-air cooled	PX 308	yes	
IGD-8-326-E1F12-BH-FA	460	750	1230	SEMITRANS	Forced-air cooled	PX 308	yes	
IGD-8-424-P1F9-BH-FA	460	750	1470	SEMITRANS	Forced-air cooled	PX 308	yes	
IGD-8-426-E1F12-BH-FA	460	750	1470	SEMITRANS	Forced-air cooled	PX 308	yes	
Three-phase rectifier and inverter								
IGDD6-1-326-D1616-E1N6-DL-FA	460	750	150	SEMITRANS/ SEMIPACK	Forced-air cooled	PX 308	yes	
IGDD6-1-426-D1616-E1N6-DL-FA	460	750	180	SEMITRANS/ SEMIPACK	Forced-air cooled	PX 308	yes	
IGDD6-2-326-D1616-E1F12-DH-FA	460	750	280	SEMITRANS/ SEMIPACK	Forced-air cooled	PX 308	yes	
IGDD6-2-426-D1616-E1F12-DH-FA	460	750	330	SEMITRANS/ SEMIPACK	Forced-air cooled	PX 308	yes	
IGDD6-4-326-D3816-E1F12-BL-FA	460	750	570	SEMITRANS/ SEMIPACK	Forced-air cooled	PX 308	yes	
IGDD6-4-426-D3816-E1F12-BL-FA	460	750	680	SEMITRANS/ SEMIPACK	Forced-air cooled	PX 308	yes	

Cases

SEMIKUBE size range



Size 1



Dimensions in mm

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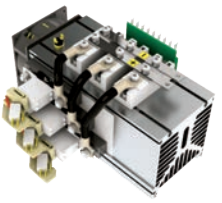
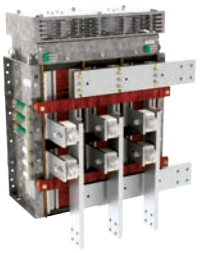
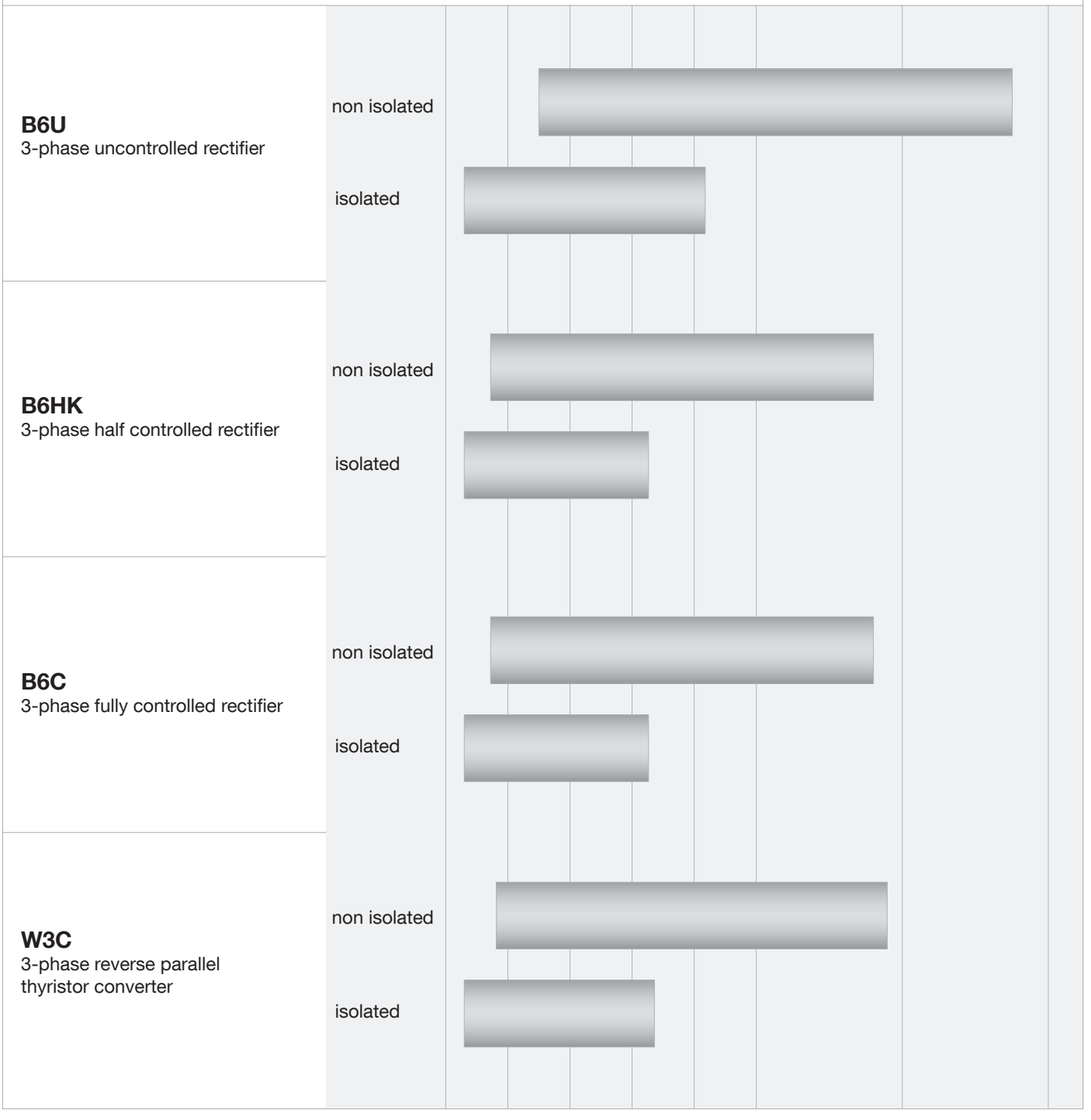
Solutions - Diode / Thyristor Standards

SEMISTACK CLASSICS







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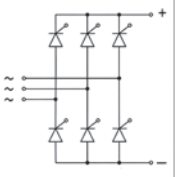
Solutions - CLASSICS

Type	V_{AC} V	V_{DC} V	Current A	Component Family	Cooling	Heatsink profile	Iso-lated	Circuit
Three-phase fully-controlled thyristor bridge rectifier								
SKS 88N B6C 60 V16	500	670	88	SEMIPACK 1	Natural cooled	P3/180	yes	
SKS 88N B6C 60 V16 SU	500	670	88	SEMIPACK 1	Natural cooled	P3/180	yes	
SKS 180F B6C 120 V16	500	670	180	SEMIPACK 1	Forced-air cooled	P3/180	yes	
SKS 180F B6C 120 V16 SU	500	670	180	SEMIPACK 1	Forced-air cooled	P3/180	yes	
SKS 215N B6C 145 V16	500	670	215	Stud devices	Natural cooled	P1/150	no	
SKS 215N B6C 145 V16 SU	500	670	215	Stud devices	Natural cooled	P1/150	no	
SKS 250F B6C 170 V16	500	670	250	SEMIPACK 2	Forced-air cooled	P3/265	yes	
SKS 250F B6C 170 V16 SU	500	670	250	SEMIPACK 2	Forced-air cooled	P3/265	yes	
SKS 355N B6C 240 V16	500	670	355	Stud devices	Natural cooled	P1/200	no	
SKS 355N B6C 240 V16 SU	500	670	355	Stud devices	Natural cooled	P1/200	no	
SKS 365F B6C 245 V16	500	670	365	SEMIPACK 2	Forced-air cooled	P16/200	yes	
SKS 365F B6C 245 V16 SU	500	670	365	SEMIPACK 2	Forced-air cooled	P16/200	yes	
SKS 570F B6C 380 V16	500	670	570	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 570F B6C 380 V16 SU	500	670	570	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 640F B6C 430 V16	500	670	640	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 640F B6C 430 V16 SU	500	670	640	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 700N B6C 470 V16	500	670	700	Capsules	Natural cooled	P11/415	no	
SKS 700N B6C 470 V16 SU	500	670	700	Capsules	Natural cooled	P11/415	no	
SKS 845N B6C 570 V16	500	670	845	Capsules	Natural cooled	U3/515	no	
SKS 845N B6C 570 V16 SU	500	670	845	Capsules	Natural cooled	U3/515	no	
SKS 970F B6C 650 V16	500	670	970	SEMIPACK 5	Forced-air cooled	P16/300	yes	
SKS 970F B6C 650 V16 SU	500	670	970	SEMIPACK 5	Forced-air cooled	P16/300	yes	
SKS 1000N B6C 670 V16	500	670	1000	Capsules	Natural cooled	U3/515	no	
SKS 1000N B6C 670 V16 SU	500	670	1000	Capsules	Natural cooled	U3/515	no	
SKS 1200F B6C 800 V16	500	670	1200	Capsules	Forced-air cooled	P17/130	no	
SKS 1200F B6C 800 V16 SU	500	670	1200	Capsules	Forced-air cooled	P17/130	no	
SKS 1500F B6C 1010 V16	500	670	1500	Capsules	Forced-air cooled	P17/130	no	
SKS 1500F B6C 1010 V16 SU	500	670	1500	Capsules	Forced-air cooled	P17/130	no	
SKS 1890F B6C 1270 V16	500	670	1890	Capsules	Forced-air cooled	P18/180	no	
SKS 1890F B6C 1270 V16 ZU	500	670	1890	Capsules	Forced-air cooled	P18/180	no	
SKS 2580F B6C 1730 V16	500	670	2580	Capsules	Forced-air cooled	N4/250	no	
SKS 2580F B6C 1730 V16 ZU	500	670	2580	Capsules	Forced-air cooled	N4/250	no	



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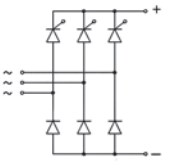
Solutions - CLASSICS

Type	V_{AC} V	V_{DC} V	Current A	Component Family	Cooling	Heatsink profile	Iso-lated	Circuit
Three-phase half-controlled bridge rectifier								
SKS 88N B6HK 60 V16	500	670	88	SEMIPACK 1	Natural cooled	P3/180	yes	
SKS 88N B6HK 60 V16 SU	500	670	88	SEMIPACK 1	Natural cooled	P3/180	yes	
SKS 180F B6HK 120 V16	500	670	180	SEMIPACK 1	Forced-air cooled	P3/180	yes	
SKS 180F B6HK 120 V16 SU	500	670	180	SEMIPACK 1	Forced-air cooled	P3/180	yes	
SKS 215N B6HK 145 V16	500	670	215	Stud devices	Natural cooled	P1/150	no	
SKS 215N B6HK 145 V16 SU	500	670	215	Stud devices	Natural cooled	P1/150	no	
SKS 250F B6HK 170 V16	500	670	250	SEMIPACK 2	Forced-air cooled	P3/265	yes	
SKS 250F B6HK 170 V16 SU	500	670	250	SEMIPACK 2	Forced-air cooled	P3/265	yes	
SKS 355N B6HK 240 V16	500	670	355	Stud devices	Natural cooled	P1/200	no	
SKS 355N B6HK 240 V16 SU	500	670	355	Stud devices	Natural cooled	P1/200	no	
SKS 365F B6HK 245 V16	500	670	365	SEMIPACK 2	Forced-air cooled	P16/200	yes	
SKS 365F B6HK 245 V16 SU	500	670	365	SEMIPACK 2	Forced-air cooled	P16/200	yes	
SKS 570F B6HK 380 V16	500	670	570	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 570F B6HK 380 V16 SU	500	670	570	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 640F B6HK 430 V16	500	670	640	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 640F B6HK 430 V16 SU	500	670	640	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 700N B6HK 470 V16	500	670	700	Capsules	Natural cooled	P11/415	no	
SKS 700N B6HK 470 V16 SU	500	670	700	Capsules	Natural cooled	P11/415	no	
SKS 845N B6HK 570 V16	500	670	845	Capsules	Natural cooled	U3/515	no	
SKS 845N B6HK 570 V16 SU	500	670	845	Capsules	Natural cooled	U3/515	no	
SKS 970F B6HK 650 V16	500	670	970	SEMIPACK 5	Forced-air cooled	P16/300	yes	
SKS 970F B6HK 650 V16 SU	500	670	970	SEMIPACK 5	Forced-air cooled	P16/300	yes	
SKS 1000N B6HK 670 V16	500	670	1000	Capsules	Natural cooled	U3/515	no	
SKS 1000N B6HK 670 V16 SU	500	670	1000	Capsules	Natural cooled	U3/515	no	
SKS 1200F B6HK 800 V16	500	670	1200	Capsules	Forced-air cooled	P17/130	no	
SKS 1200F B6HK 800 V16 SU	500	670	1200	Capsules	Forced-air cooled	P17/130	no	
SKS 1500F B6HK 1010 V16	500	670	1500	Capsules	Forced-air cooled	P17/130	no	
SKS 1500F B6HK 1010 V16 SU	500	670	1500	Capsules	Forced-air cooled	P17/130	no	
SKS 1890F B6HK 1270 V16	500	670	1890	Capsules	Forced-air cooled	P18/180	no	
SKS 1890F B6HK 1270 V16 ZU	500	670	1890	Capsules	Forced-air cooled	P18/180	no	
SKS 2580F B6HK 1730 V16	500	670	2580	Capsules	Forced-air cooled	N4/250	no	
SKS 2580F B6HK 1730 V16 ZU	500	670	2580	Capsules	Forced-air cooled	N4/250	no	



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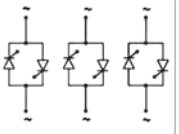
Solutions - CLASSICS

Type	V_{AC} V	V_{DC} V	Current A	Component Family	Cooling	Heatsink profile	Iso-lated	Circuit
Three-phase reverse parallel thyristor converter								
SKS 67N W3C 60 V16 [1]	500	-	67	SEMIPACK 1	Natural cooled	P3/180	yes	
SKS 67N W3C 60 V16 SU [1]	500	-	67	SEMIPACK 1	Natural cooled	P3/180	yes	
SKS 140F W3C 120 V16	500	-	140	SEMIPACK 1	Forced-air cooled	P3/180	yes	
SKS 140F W3C 120 V16 SU [1]	500	-	140	SEMIPACK 1	Forced-air cooled	P3/180	yes	
SKS 170N W3C 150 V16 [1]	500	-	170	Stud devices	Natural cooled	P1/150	no	
SKS 170N W3C 150 V16 SU [1]	500	-	170	Stud devices	Natural cooled	P1/150	no	
SKS 195F W3C 170 V16 [1]	500	-	195	SEMIPACK 2	Forced-air cooled	P3/265	yes	
SKS 195F W3C 170 V16 SU [1]	500	-	195	SEMIPACK 2	Forced-air cooled	P3/265	yes	
SKS 275N W3C 240 V16 [1]	500	-	275	Stud devices	Natural cooled	P1/200	no	
SKS 275N W3C 240 V16 SU [1]	500	-	275	Stud devices	Natural cooled	P1/200	no	
SKS 290F W3C 250 V16 [1]	500	-	290	SEMIPACK 2	Forced-air cooled	P16/200	yes	
SKS 290F W3C 250 V16 SU [1]	500	-	290	SEMIPACK 2	Forced-air cooled	P16/200	yes	
SKS 450F W3C 390 V16 [1]	500	-	450	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 450F W3C 390 V16 SU [1]	500	-	450	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 520F W3C 450 V16 [1]	500	-	520	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 520F W3C 450 V16 SU [1]	500	-	520	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 545N W3C 470 V16 [1]	500	-	545	Capsules	Natural cooled	P11/415	no	
SKS 545N W3C 470 V16 SU [1]	500	-	545	Capsules	Natural cooled	P11/415	no	
SKS 650N W3C 560 V16 [1]	500	-	650	Capsules	Natural cooled	U3/515	no	
SKS 650N W3C 560 V16 SU [1]	500	-	650	Capsules	Natural cooled	U3/515	no	
SKS 760F W3C 660 V16 [1]	500	-	760	SEMIPACK 5	Forced-air cooled	P16/300	yes	
SKS 760F W3C 660 V16 SU [1]	500	-	760	SEMIPACK 5	Forced-air cooled	P16/300	yes	
SKS 780N W3C 675 V16 [1]	500	-	780	Capsules	Natural cooled	U3/515	no	
SKS 780N W3C 675 V16 SU [1]	500	-	780	Capsules	Natural cooled	U3/515	no	
SKS 950F W3C 825 V16 [1]	500	-	950	Capsules	Forced-air cooled	P17/130	no	
SKS 950F W3C 825 V16 SU [1]	500	-	950	Capsules	Forced-air cooled	P17/130	no	
SKS 1180F W3C 1020 V16 [1]	500	-	1180	Capsules	Forced-air cooled	P17/130	no	
SKS 1180F W3C 1020 V16 SU [1]	500	-	1180	Capsules	Forced-air cooled	P17/130	no	
SKS 1540F W3C 1335 V16 [1]	500	-	1540	Capsules	Forced-air cooled	P18/180	no	
SKS 1540F W3C 1335 V16 SU [1]	500	-	1540	Capsules	Forced-air cooled	P18/180	no	
SKS 2150F W3C 1860 V16 [1]	500	-	2150	Capsules	Forced-air cooled	N4/250	no	
SKS 2150F W3C 1860 V16 ZU [1]	500	-	2150	Capsules	Forced-air cooled	N4/250	no	

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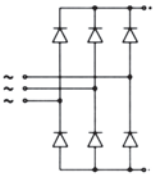
Solutions - CLASSICS

Type	V_{AC} V	V_{DC} V	Current A	Component Family	Cooling	Heatsink profile	Iso-lated	Circuit
Three-phase uncontrolled diode bridge rectifier								
SKS 91N B6U 60 V16	500	670	91	SEMIPACK 1	Natural cooled	P3/180	yes	
SKS 91N B6U 60 V16 SU	500	670	91	SEMIPACK 1	Natural cooled	P3/180	yes	
SKS 185F B6U 125 V16	500	670	185	SEMIPACK 1	Forced-air cooled	P3/180	yes	
SKS 185F B6U 125 V16 SU	500	670	185	SEMIPACK 1	Forced-air cooled	P3/180	yes	
SKS 290F B6U 195 V16	500	670	290	SEMIPACK 2	Forced-air cooled	P3/265	yes	
SKS 290F B6U 195 V16 SU	500	670	290	SEMIPACK 2	Forced-air cooled	P3/265	yes	
SKS 425N B6U 285 V16	500	670	425	Stud devices	Natural cooled	P1/150	no	
SKS 425N B6U 285 V16 SU	500	670	425	Stud devices	Natural cooled	P1/150	no	
SKS 430F B6U 290 V16	500	670	430	SEMIPACK 2	Forced-air cooled	P16/200	yes	
SKS 430F B6U 290 V16 SU	500	670	430	SEMIPACK 2	Forced-air cooled	P16/200	yes	
SKS 535N B6U 360 V16	500	670	535	Stud devices	Natural cooled	P1/200	no	
SKS 535N B6U 360 V16 SU	500	670	535	Stud devices	Natural cooled	P1/200	no	
SKS 660F B6U 440 V16	500	670	660	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 660F B6U 440 V16 SU	500	670	660	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 850F B6U 570 V16	500	670	850	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 850F B6U 570 V16 SU	500	670	850	SEMIPACK 3	Forced-air cooled	P16/200	yes	
SKS 1185N B6U 795 V16	500	670	1185	Capsules	Natural cooled	P11/415	no	
SKS 1185N B6U 795 V16 SU	500	670	1185	Capsules	Natural cooled	P11/415	no	
SKS 1220F B6U 820 V16	500	670	1220	SEMIPACK 5	Forced-air cooled	P16/300	yes	
SKS 1220F B6U 820 V16 SU	500	670	1220	SEMIPACK 5	Forced-air cooled	P16/300	yes	
SKS 1630N B6U 1090 V16	500	670	1630	Capsules	Natural cooled	U3/515	no	
SKS 1630N B6U 1090 V16 ZU	500	670	1630	Capsules	Natural cooled	U3/515	no	
SKS 1910N B6U 1280 V16	500	670	1910	Capsules	Natural cooled	U3/515	no	
SKS 1910N B6U 1280 V16 ZU	500	670	1910	Capsules	Natural cooled	U3/515	no	
SKS 1950F B6U 1305 V16	500	670	1950	Capsules	Forced-air cooled	P17/130	no	
SKS 1950F B6U 1305 V16 ZU	500	670	1950	Capsules	Forced-air cooled	P17/130	no	
SKS 2300F B6U 1540 V16	500	670	2300	Capsules	Forced-air cooled	P18/180	no	
SKS 2300F B6U 1540 V16 ZU	500	670	2300	Capsules	Forced-air cooled	P18/180	no	
SKS 4015F B6U 2690 V16	500	670	4015	Capsules	Forced-air cooled	N4/250	no	



Footnotes

[1)] New

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Abbreviations

Acronym	English
E_{off}	Energy dissipation during turn-off
E_{on}	Energy dissipation during turn-on
E_{rr}	Energy dissipation during reverse recovery (diode)
f	Operating frequency
f_{max}	Maximum frequency
I_C	Continuous collector current
I_{Cnom}	Nominal collector current
I_D	Direct output current (of a rectifier connection)
I_D	Continuous drain current (MOSFET)
I_F	Forward current (actual value)
I_{FAV}	Mean forward current
I_{FSM}	Surge forward current
I_{GT}	Minimum guaranteed gate trigger current
$I_{outPEAK}$	Output peak current (driver)
$I_{overload}$	Overload current for a specified time
i_T	On-State current (instantaneous value)
I_{TAV}	Mean on-state current
I_{TSM}	Surge on-state curren
Qout/pulse	Output charge per pulse (Driver)
Q_{rr}	Reverse recovery charge
$R_{DS(on)}$	Drain-source on-resistance (MOSFET)
r_T	On-state slope resistance, forward slope resistance (Thyristor)
$R_{th(c-s)}$	thermal resistance case to heat sink
$R_{th(j-a)}$	Thermal resistance junction to ambient
$R_{th(j-c)}$	Thermal resistance junction to case
$R_{th(j-s)}$	Thermal resistance junction to sink
$R_{th(s-a)}$	Thermal resistance heat sink to ambient
T_c	Case temperature
T_j	Junction temperature
t_q	Circuit commutated turn-off time (thyristor)
T_s	Heatsink temperature
V_{air}/t	Air flow
V_{CE}	Collector-emitter voltage
V_{CEsat}	Collector-emitter saturation voltage
V_{DRM}	Repetitive peak off-state voltage
V_{DS}	Drain-source voltage
V_F	Forward voltage
$V_{G(off)}$	Turn-off gate voltage level (driver)
$V_{G(on)}$	Turn-on gate voltage level (driver)
V_{GT}	Gate trigger voltage
V_{in}	Input voltage
$V_{isol(IO)}$	Isolation test voltage (r.m.s. /1 min.) input-output (driver)
V_{RRM}	Repetitive peak reverse voltage
V_T	On-state voltage (Thyristor)
w	Weight

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