

**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

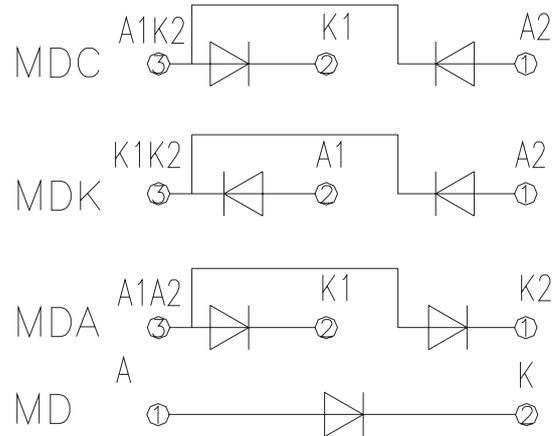
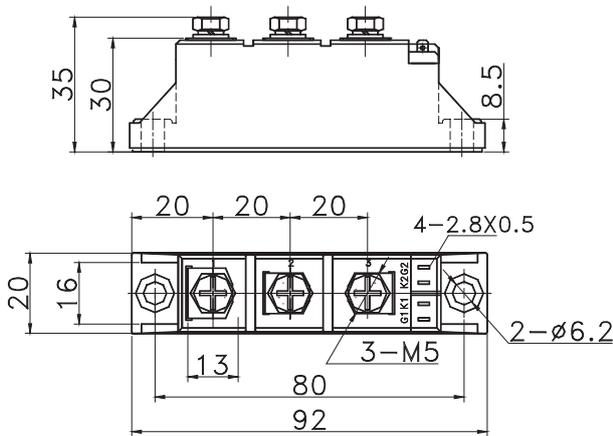
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	26A
$V_{RRM}$	600~1800V
$I_{FSM}$	0.65KA
$I^2t$	$2.1A^2 S \cdot 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			26	A
$I_{F(RMS)}$	RMS forward current		150			41	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} \text{ tp}=10\text{ms}$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			0.65	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				2.1	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$R_F$	Forward slop resistance					9.80	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=80A$	25			1.65	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				1.300	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.2	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1\text{min}, I_{iso}: 1\text{mA}(\text{max})$		2500			V
$F_m$	Terminal connection torque(M5)					2.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					115	g

**Outline:**



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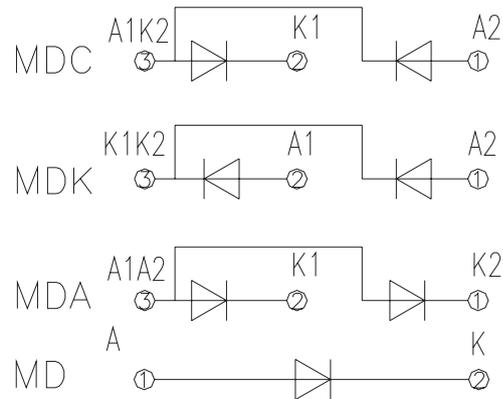
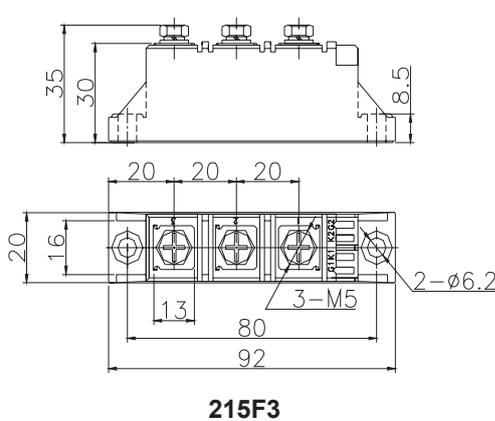
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	40A
$V_{RRM}$	600~1800V
$I_{FSM}$	1.0KA
$I^2t$	$5.1A^2 S \cdot 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			40	A
$I_{F(RMS)}$	RMS forward current		150			63	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			1.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				5.1	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$R_F$	Forward slop resistance					5.57	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=120A$	25			1.55	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.900	$^{\circ}C / W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.2	$^{\circ}C / W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}: 1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					2.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					115	g

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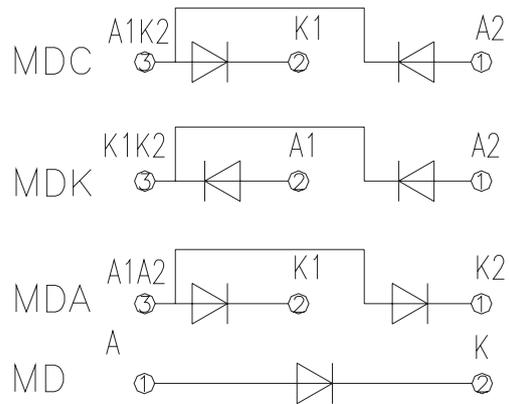
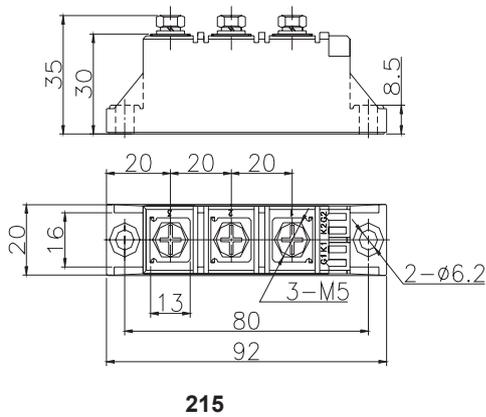
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	55A
$V_{RRM}$	600~1800V
$I_{FSM}$	1.3KA
$I^2t$	$8.6A^2 S \cdot 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_i(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			55	A
$I_{F(RMS)}$	RMS forward current		150			86	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} \text{ tp}=10\text{ms}$ $V_{RSM}=V_{RRM}+200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			1.30	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$	150			8.6	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$R_F$	Forward slop resistance		150			3.47	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=170A$	25			1.45	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.700	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.2	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$ , $I_{iso}:1\text{mA}(\text{max})$		2500			V
$F_m$	Terminal connection torque(M5)					2.0	N-m
	Mounting torque(M6)					3.0	N-m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					115	g

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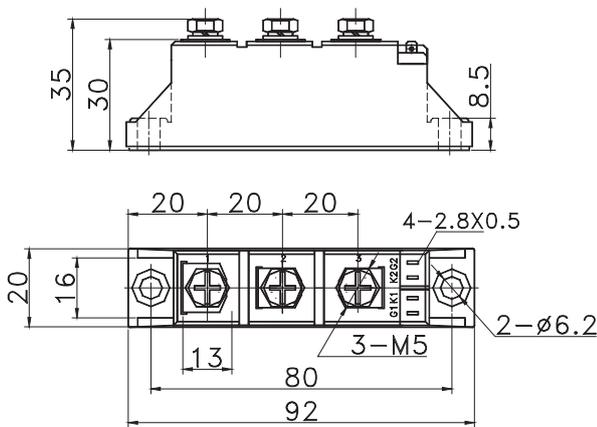
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	70A
$V_{RRM}$	600~1800V
$I_{FSM}$	1.8KA
$I^2t$	$16.5A^2 S * 10^3$

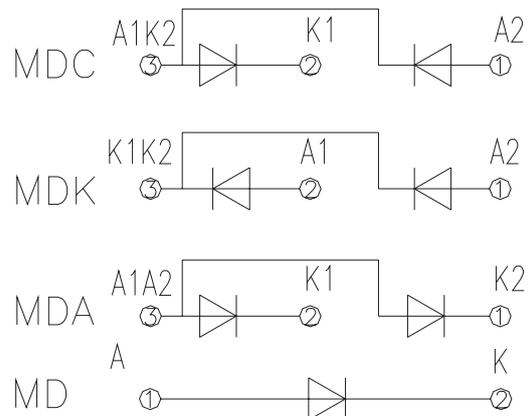


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			70	A
$I_{F(RMS)}$	RMS forward current		150			110	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM}$ tp=10ms $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			1.80	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				16.5	$A^2s * 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$R_F$	Forward slop resistance					2.50	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=210A$	25			1.40	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.570	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.2	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					2.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					115	g

**Outline:**



**215F3**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
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- Space and weight savings

**Typical Applications:**

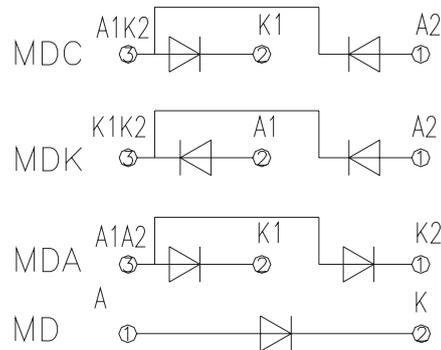
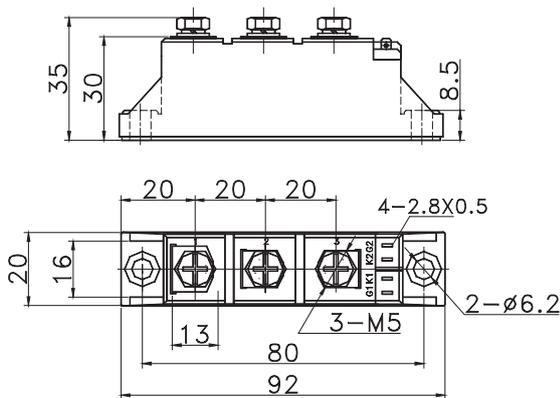
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	90A
$V_{RRM}$	600~1800V
$I_{FSM}$	$2.3A \times 10^3$
$I^2t$	$26.9A^2 S \times 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			90	A
$I_{F(RMS)}$	RMS forward current		150			141	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} \text{ tp}=10\text{ms}$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			2.30	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				26.9	$A^2s \times 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$R_F$	Forward slop resistance					1.70	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=270A$	25			1.33	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.470	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.2	°C /W
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}:1mA(\text{max})$		2500			V
$F_m$	Terminal connection torque(M5)					4	N·m
	Mounting torque(M6)					6	N·m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight					115	g

**Outline:**



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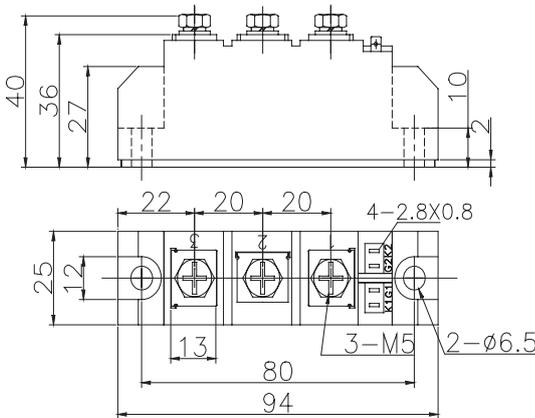
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	110A
$V_{RRM}$	600~1800V
$I_{FSM}$	2.6KA
$I^2t$	$34.4A^2 S^* 10^3$

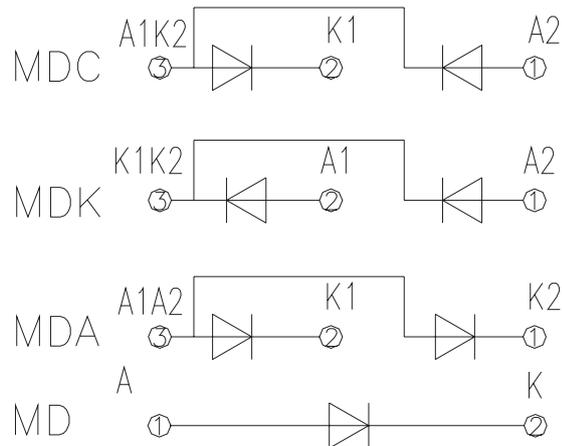


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			110	A
$I_{F(RMS)}$	RMS forward current		150			173	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			2.60	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$	150			34.4	$A^2s^* 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$R_F$	Forward slop resistance					1.74	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=330A$	25			1.45	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.350	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.15	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}: 1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					2.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					160	g

**Outline:**



**202F3**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

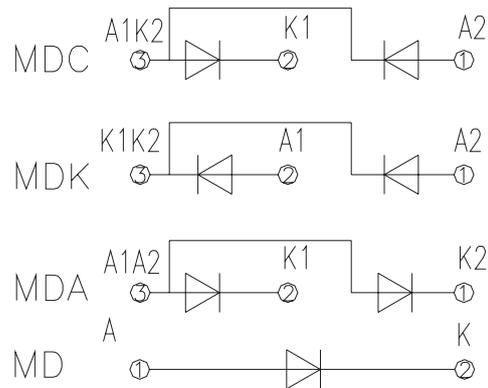
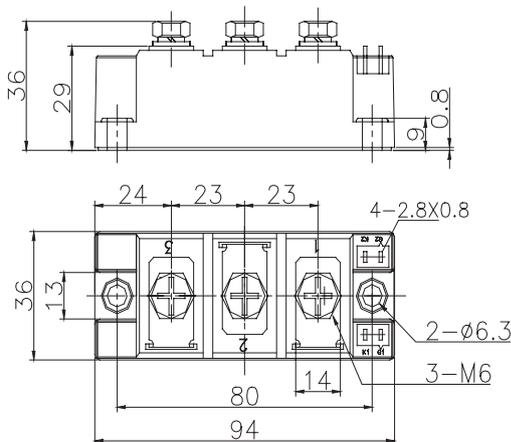
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	135A
$V_{RRM}$	600~1800V
$I_{FSM}$	$3.90A \times 10^3$
$I^2t$	$77.5A^2 S \times 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_i(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			135	A
$I_{F(RMS)}$	RMS forward current		150			212	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} \text{ tp}=10\text{ms}$ $V_{RSM}=V_{RRM}+200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			12	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			3.90	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				77.5	$A^2s \times 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$R_F$	Forward slop resistance					1.18	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=410A$	25			1.38	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.310	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.08	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}:1mA(\text{max})$		2500			V
$F_m$	Terminal connection torque(M5)					6	N·m
	Mounting torque(M6)					6	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					320	g

**Outline:**



**Features:**

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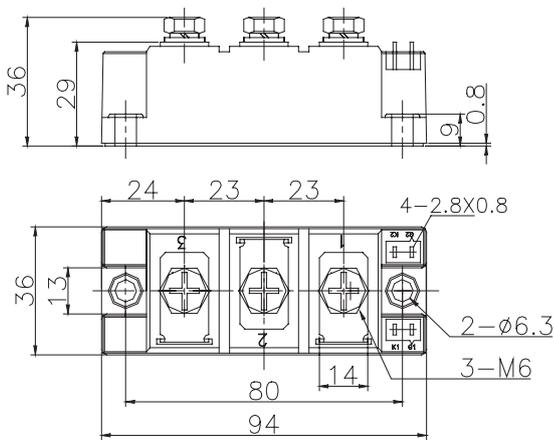
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	160A
$V_{RRM}$	600~1800V
$I_{FSM}$	6KA
$I^2t$	$184A^2 S \cdot 10^3$

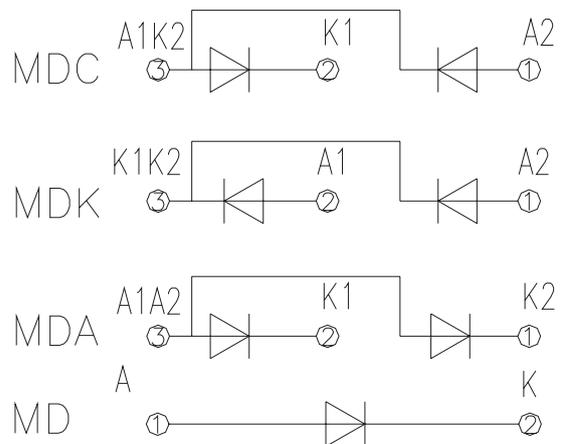


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			160	A
$I_{F(RMS)}$	RMS forward current		150			251	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			12	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			6.00	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$	150			184	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$R_F$	Forward slop resistance					1.35	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=480A$	25			1.56	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.230	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.08	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}=1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					3.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					320	g

**Outline:**



**214F3**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

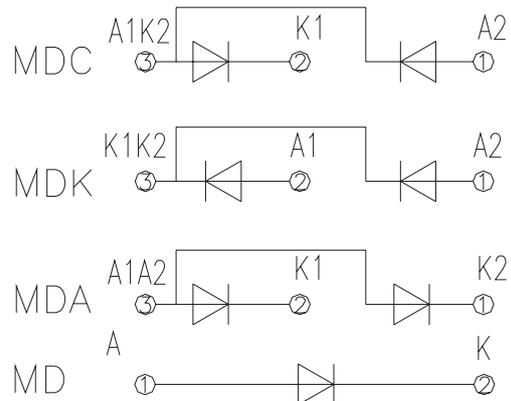
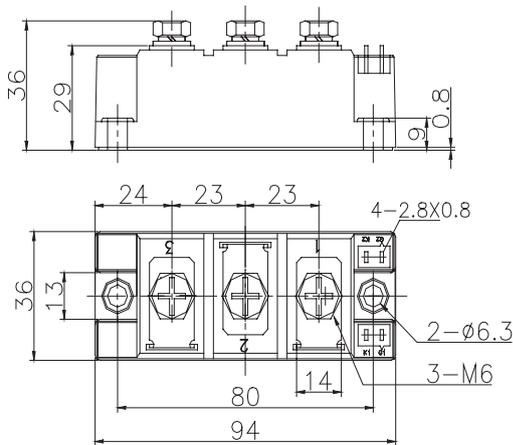
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	182A
$V_{RRM}$	600~1800V
$I_{FSM}$	$6.4A \times 10^3$
$I^2t$	$209A^2 S \times 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			182	A
$I_{F(RMS)}$	RMS forward current		150			286	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM}=V_{RRM}+200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			12	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			6.40	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				209	$A^2s \times 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$R_F$	Forward slop resistance					0.96	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=550A$	25			1.43	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.220	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.08	°C /W
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					6	N·m
	Mounting torque(M6)					6	N·m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight					320	g

**Outline:**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Increased power cycling capability
- Space and weight savings

**Typical Applications:**

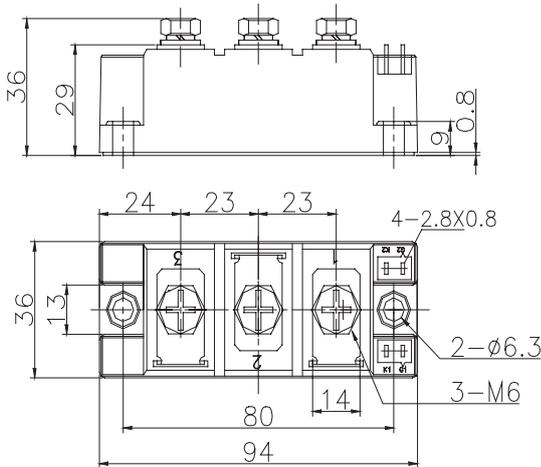
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	200A
$V_{RRM}$	600~1800V
$I_{FSM}$	8KA
$I^2t$	$326A^2 S * 10^3$

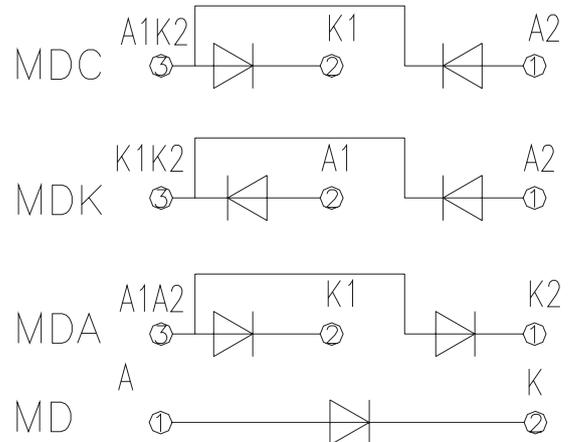


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			200	A
$I_{F(RMS)}$	RMS forward current		150			314	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			12	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			8.00	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				326	$A^2s * 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.88	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=600A$	25			1.38	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.210	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.08	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					3.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					320	g

**Outline:**



**214F3**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Increased power cycling capability
- Space and weight savings

**Typical Applications:**

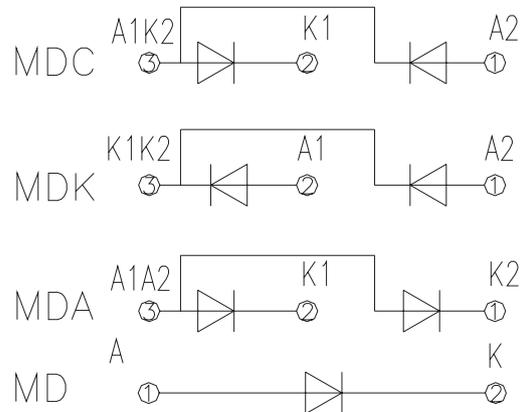
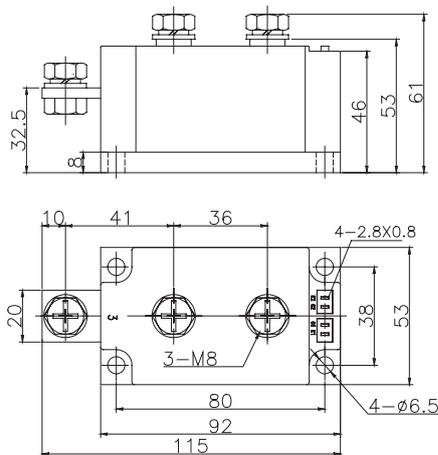
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	250A
$V_{RRM}$	600~1800V
$I_{FSM}$	$11A \times 10^3$
$I^2t$	$617A^2 S \times 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			250	A
$I_{F(RMS)}$	RMS forward current		150			393	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} t_p=10ms$ $V_{RSM}=V_{RRM}+200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			20	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			11.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$	150			617	$A^2s \times 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.76	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=750A$	25			1.43	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.14	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.04	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					12	N·m
	Mounting torque(M6)					6	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					860	g

**Outline:**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

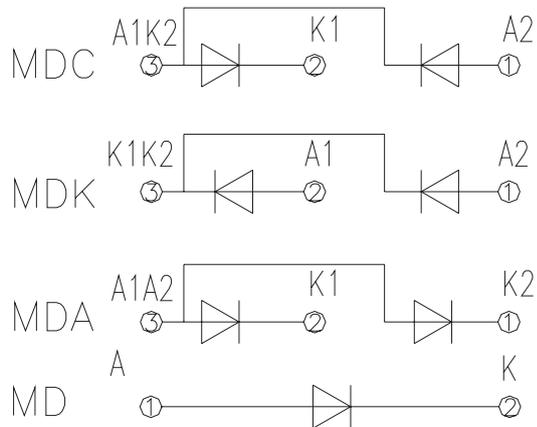
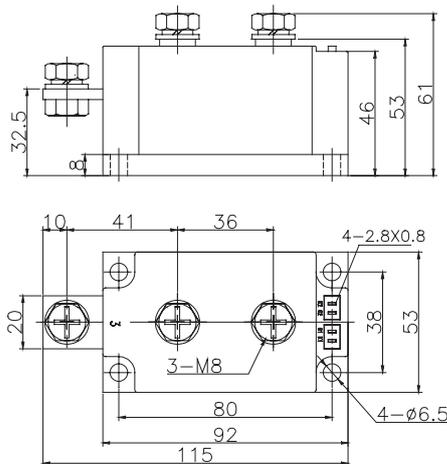
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	300A
$V_{RRM}$	600~1800V
$I_{FSM}$	$12.5A \times 10^3$
$I^2t$	$797A^2 S \times 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			300	A
$I_{F(RMS)}$	RMS forward current		150			471	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			20	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			12.5	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				797	$A^2s \times 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.55	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=900A$	25			1.35	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.130	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.04	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}: 1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)				12		N·m
	Mounting torque(M6)				6		N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				860		g

**Outline:**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

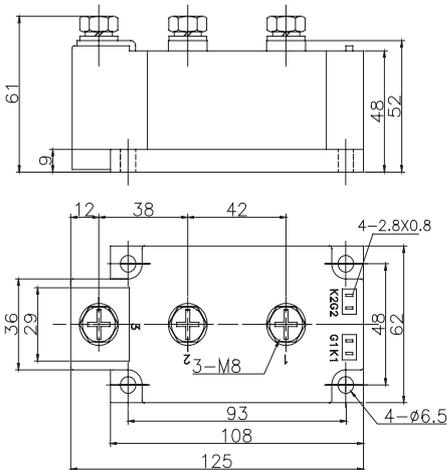
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	350A
$V_{RRM}$	600~1800V
$I_{FSM}$	15KA
$I^2t$	1150A <sup>2</sup> S*10 <sup>3</sup>

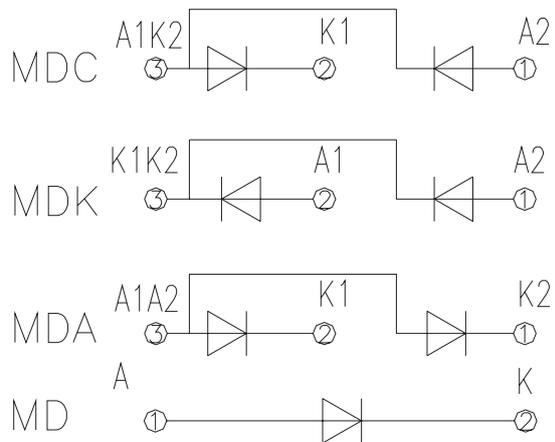


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, T <sub>c</sub> =100°C	150			350	A
$I_{F(RMS)}$	RMS forward current		150			550	A
$V_{RRM}$	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +200V	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at V <sub>RRM</sub>	150			30	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			15.0	KA
$I^2t$	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				1150	A <sup>2</sup> s*10 <sup>3</sup>
$V_{FO}$	Threshold voltage		150			0.75	V
$R_{fF}$	Forward slop resistance					0.61	mΩ
$V_{FM}$	Peak forward voltage	I <sub>FM</sub> =1050A	25			1.50	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.110	°C/W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.04	°C/W
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, I <sub>iso</sub> : 1mA(max)		2500			V
$F_m$	Terminal connection torque(M5)					4.5	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight					1340	g

**Outline:**



**402F3**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Increased power cycling capability
- Space and weight savings

**Typical Applications:**

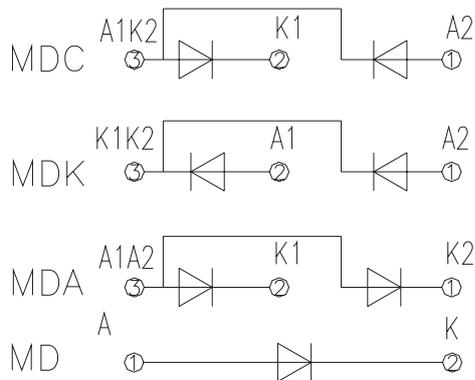
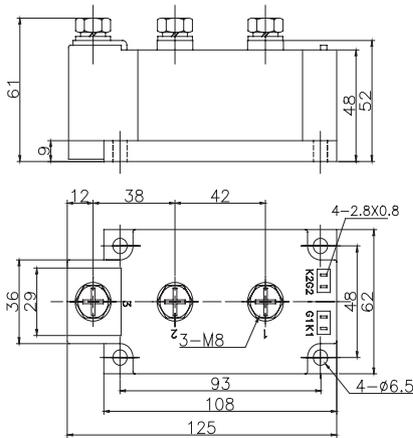
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	400A
$V_{RRM}$	600~1800V
$I_{FSM}$	17KA
$I^2t$	1470A <sup>2</sup> S*10 <sup>3</sup>



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>i</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, T <sub>c</sub> =100°C	150			400	A
$I_{F(RMS)}$	RMS forward current		150			628	A
$V_{RRM}$	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +200V	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at V <sub>RRM</sub>	150			30	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			17.0	KA
$I^2t$	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				1470	A <sup>2</sup> s*10 <sup>3</sup>
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.50	mΩ
$V_{FM}$	Peak forward voltage	I <sub>FM</sub> =1200A	25			1.48	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.100	°C/W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.04	°C/W
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, I <sub>iso</sub> : 1mA(max)		2500			V
$F_m$	Terminal connection torque(M5)					4.5	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight					1340	g

**Outline:**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Increased power cycling capability
- Space and weight savings

**Typical Applications:**

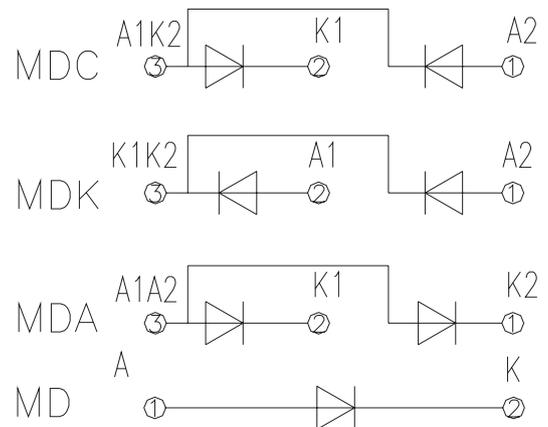
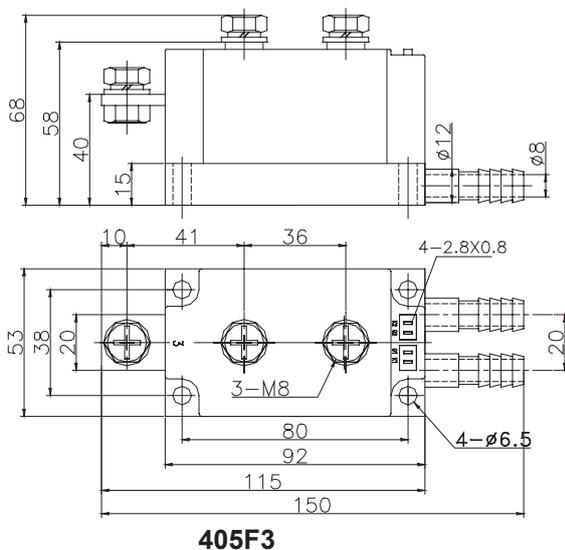
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	400A
$V_{RRM}$	600~1800V
$I_{FSM}$	10KA
$I^2t$	$510A^2 S \cdot 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			400	A
$I_{F(RMS)}$	RMS forward current		150			628	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM}=V_{RRM}+200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			30	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			10.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				510	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.64	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=1200A$	25			1.65	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.160	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}: 1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					4.5	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					1300	g

**Outline:**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

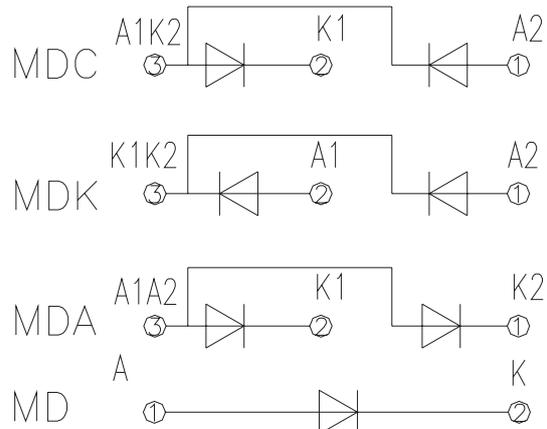
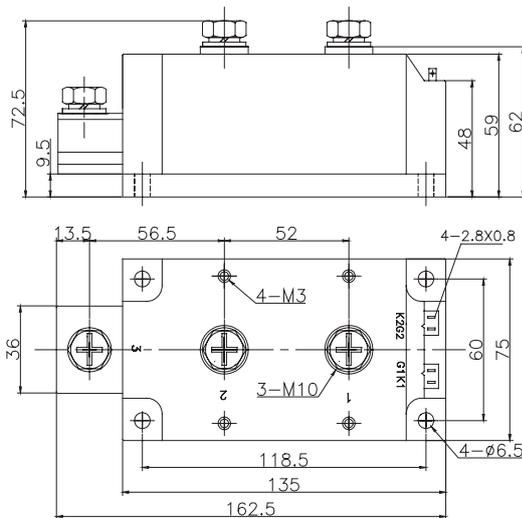
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	500A
$V_{RRM}$	600~1800V
$I_{FSM}$	$21A \times 10^3$
$I^2t$	$2250A^2 S \times 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			500	A
$I_{F(RMS)}$	RMS forward current		150			785	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} \text{ tp}=10\text{ms}$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			21.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				2250	$A^2s \times 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.32	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=1500A$	25			1.35	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.090	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.024	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					12	N·m
	Mounting torque(M6)					6	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					2300	g

**Outline:**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

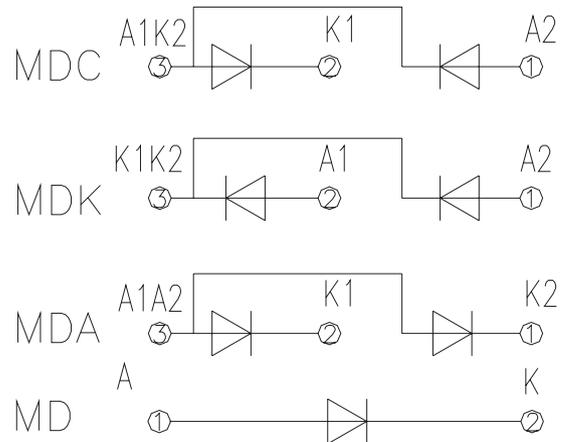
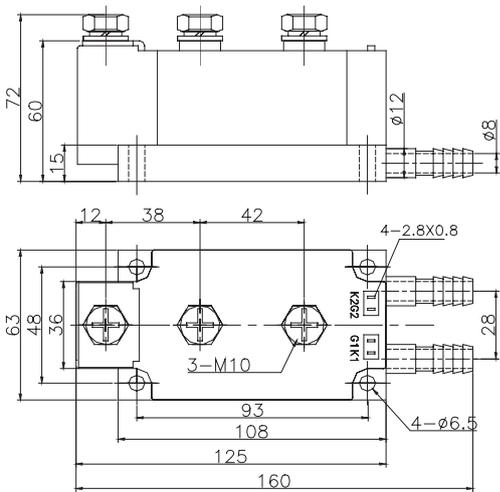
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	500A
$V_{RRM}$	600~1800V
$I_{FSM}$	12KA
$I^2t$	$734A^2 S \cdot 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_C=100^{\circ}C$	150			500	A
$I_{F(RMS)}$	RMS forward current		150			785	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			12.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$	150			734	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.51	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=1500A$	25			1.65	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.130	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}=1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					6.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					1820	g

**Outline:**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

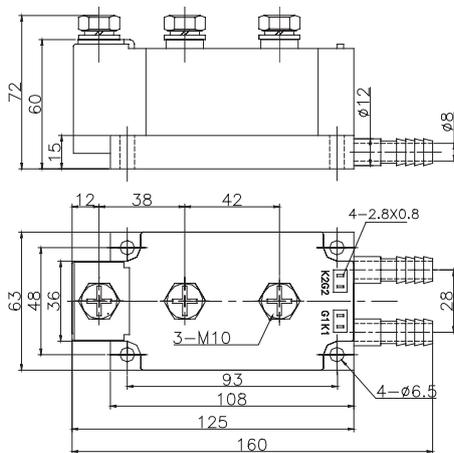
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	600A
$V_{RRM}$	600~1800V
$I_{FSM}$	15KA
$I^2t$	$1150A^2 S \cdot 10^3$

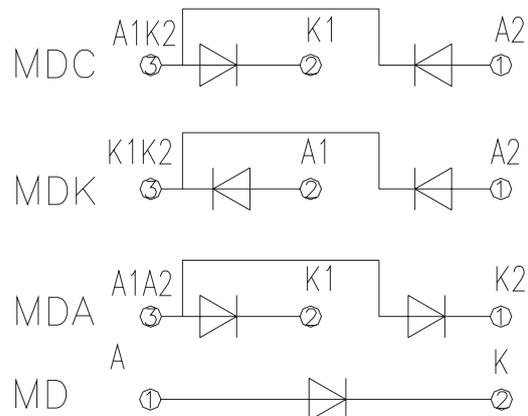


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_i(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			600	A
$I_{F(RMS)}$	RMS forward current		150			942	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			15.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$					1150
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance						0.42
$V_{FM}$	Peak forward voltage	$I_{FM}=1800A$	25			1.65	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.110	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					6.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					1820	g

**Outline:**



**406F3**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Increased power cycling capability
- Space and weight savings

**Typical Applications:**

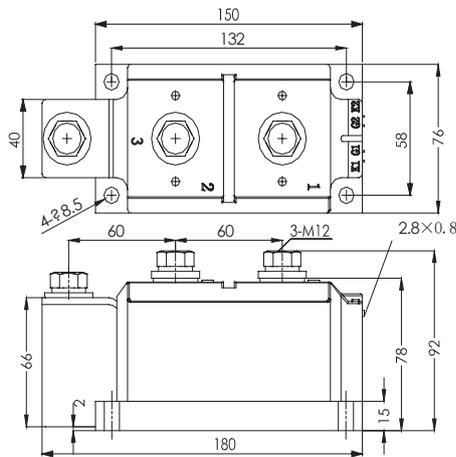
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	800A
$V_{RRM}$	600~1800V
$I_{FSM}$	18KA
$I^2t$	$1650A^2 S * 10^3$

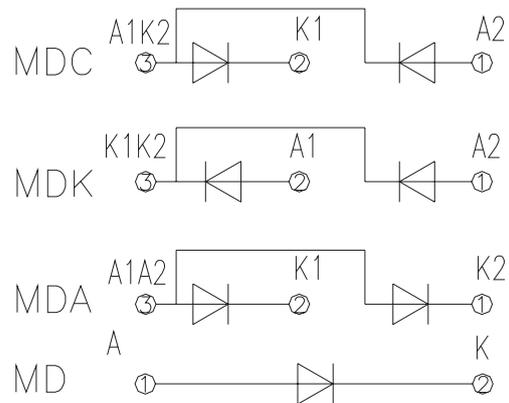


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			800	A
$I_{F(RMS)}$	RMS forward current		150			1256	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			18.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$					1650
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance						0.34
$V_{FM}$	Peak forward voltage	$I_{FM}=2400A$	25			1.70	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.080	$^{\circ}C / W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}: 1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					6.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					2600	g

**Outline:**



410F3



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Increased power cycling capability
- Space and weight savings

**Typical Applications:**

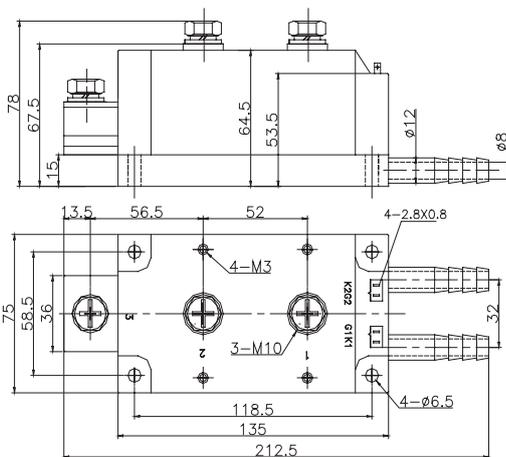
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	800A
$V_{RRM}$	600~1800V
$I_{FSM}$	18KA
$I^2t$	$1650A^2 S*10^3$

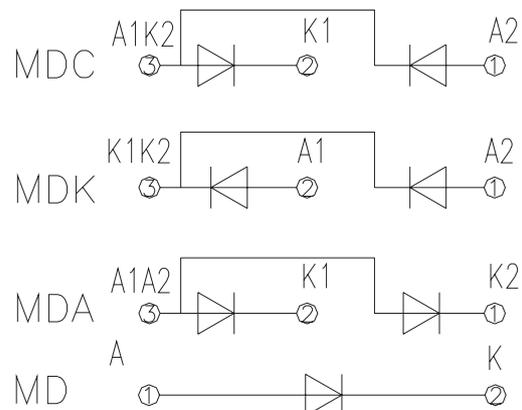


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_i(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			800	A
$I_{F(RMS)}$	RMS forward current		150			1256	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM}=V_{RRM}+200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			18.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				1650	$A^2s*10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.34	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=2400A$	25			1.70	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.080	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}=1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					6.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					2600	g

**Outline:**



**409F3**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Increased power cycling capability
- Space and weight savings

**Typical Applications:**

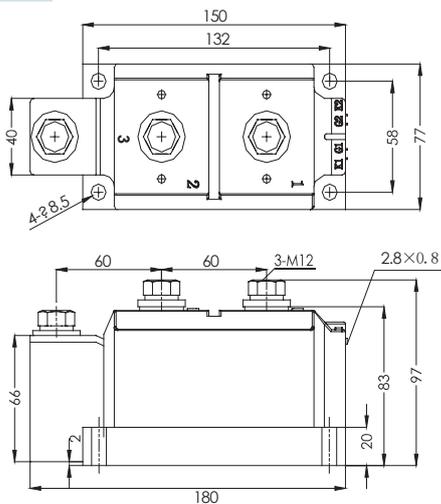
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	1000A
$V_{RRM}$	600~1800V
$I_{FSM}$	18KA
$I^2t$	$1650A^2 S * 10^3$

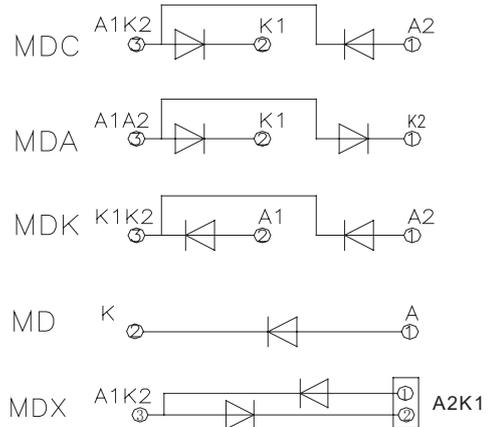


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			1000	A
$I_{F(RMS)}$	RMS forward current		150			1570	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM}=V_{RRM}+200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			18.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				1650	$A^2s * 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.31	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=3000A$	25			1.82	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.080	$^{\circ}C / W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					6.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					2600	g

**Outline:**



412F3



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

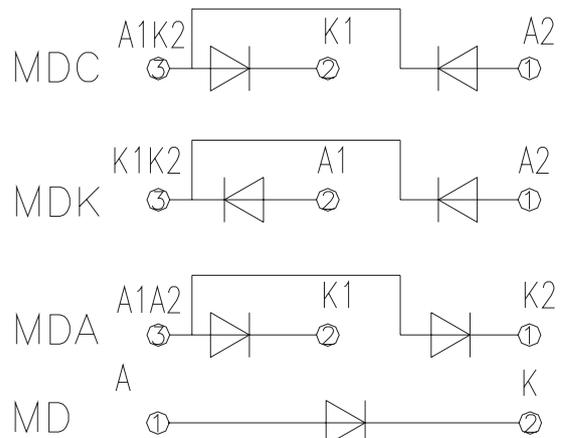
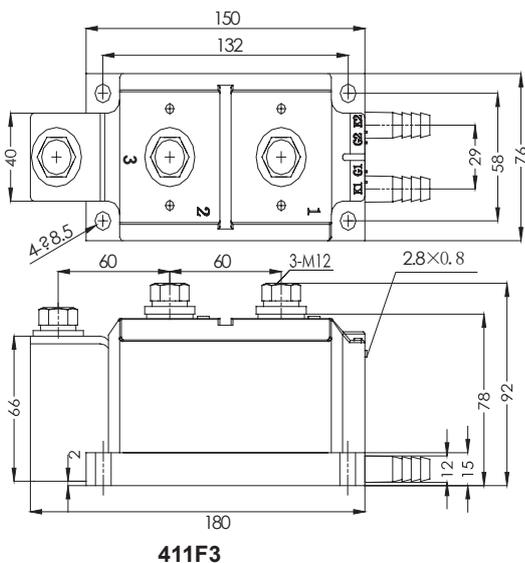
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	1000A
$V_{RRM}$	600~1800V
$I_{FSM}$	18KA
$I^2t$	$1650A^2 S*10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			1000	A
$I_{F(RMS)}$	RMS forward current		150			1570	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM}=V_{RRM}+200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			18.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				1650	$A^2s*10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.31	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=3000A$	25			1.82	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.080	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}=1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					6.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					2600	g

**Outline:**



**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with
- Incrtased power cycling capability
- Space and weight savings

**Typical Applications:**

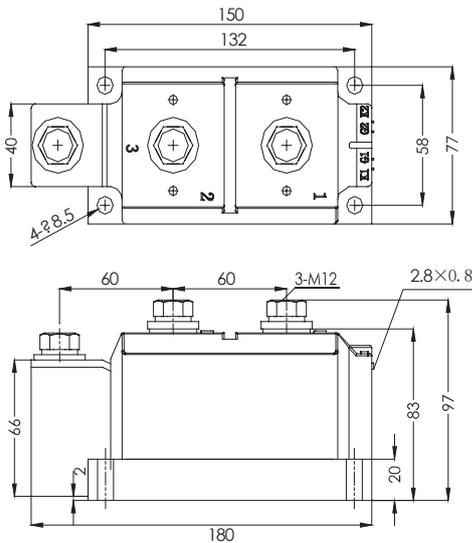
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	1200A
$V_{RRM}$	600~1800V
$I_{FSM}$	20KA
$I^2t$	$2040A^2 S * 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			1200	A
$I_{F(RMS)}$	RMS forward current		150			1884	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			50	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			20	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				2040	$A^2s * 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$R_F$	Forward slop resistance					0.25	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=3000A$	25			1.86	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.080	$^{\circ}C / W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}: 1mA(max)$		2500			V
$F_m$	Terminal connection torque(M5)					6.0	N·m
	Mounting torque(M6)					3.0	N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight					2600	g

**Outline:**



412F3

