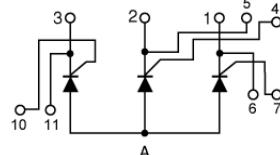
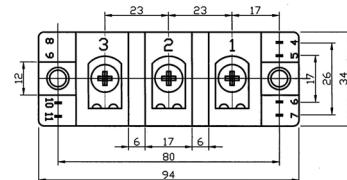
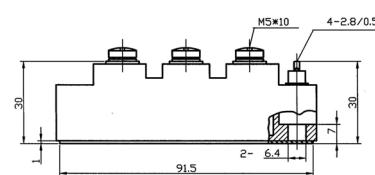


3TA100GKxxNB

Three Phase Half Bridge



Dimensions in mm (1mm = 0.0394")



Type	V _{RSM} V	V _{RRM} V
3TA100GK03NB	400	300
3TA100GK04NB	500	400

Symbol	Test Conditions	Maximum Ratings	Unit
I _{T(AV)} I _{T(RMS)}	Single phase, half wave, 180°C conduction, T _C =114°C	100 157	A
I _{TSM}	1/2cycle, 50Hz/60Hz, peak value, non-repetitive	3200/3500	A
I ² t		51000	A ² s
P _{GM} P _{G(AV)}		10 1	W
I _{FGM}		3	A
V _{FGM} V _{RGM}		10 5	V
di/dt	I _G =200mA, T _j =25°C, V _D =1/2V _{DRM} , dI _G /dt=1A/us	50	A/us
T _{vJ} T _{vJM} T _{stg}		-30...+150 150 -30...+125	°C
M _s M _t	to heatsink M6 to terminals M5	3 ~ 5 2.5 ~ 5	Nm
Weight		160	g

3TA100GKxxNB

Three Phase Half Bridge

Symbol	Test Conditions	min.	typ.	max.	Unit
I_{DRM} I_{RRM}	at V_{DRM} , single phase, half wave, $T_j=150^\circ C$		15 15		mA
V_{TM}	On-State Current 310A, $T_j=25^\circ C$ Inst. measurement			1.20	V
I_{GT}/V_{GT}	$T_j=25^\circ C$, $I_T=1A$, $V_D=6V$			75	mA/V
V_{GD}	$T_j=150^\circ C$, $V_D=1/2V_{DRM}$	0.25			V
t_{gt}	$I_T=100A$, $I_G=200mA$, $T_j=25^\circ C$, $V_D=1/2V_{DRM}$, $dI_G/dt=1A/\mu s$			10	μs
dv/dt	$T_j=150^\circ C$, $V_D=2/3V_{DRM}$, Exponential wave	500			V/ μs
I_H	$T_j=25^\circ C$		70		mA
R_{thJC}	Junction to case (1/3 Module)			0.3	$^\circ C/W$

3TA100GKxxNB

Three Phase Half Bridge

