

CBI Modules

CBI = Converter Brake Inverter

three phase rectifier, IGBT brake chopper, three phase IGBT inverter, temperature sensor

CBI 1
IGBT Modules

Fig. 49

New

Type	Rectifier 3~			V_{CES}	Inverter 3~				Brake chopper		
	V_{RRM}	I_{FAVM} $T_H = 70^\circ C$	R_{thJC} typ.		I_C $T_C = 25^\circ C$	I_C $T_C = 90^\circ C$	$V_{CE(sat)}$ typ.	R_{thJC} typ.	V_{CES}	I_C $T_C = 90^\circ C$	R_{thJC} typ.
	V	A	K/W	V	A	A	V	K/W	V	A	K/W
600 V CBI modules											
MUBW 6-06A6	1200	11	1.4	600	7.0	4.5	2.0	2.7	600	7	2.7
MUBW 10-06A6		11	1.4		11.0	8.0	2.0	2.4		11	2.4
MUBW 15-06A6		11	1.4		18.0	10.0	2.1	1.7		11	2.4
MUBW 20-06A6		11	1.4		23.0	13.0	2.1	1.5		11	2.4
MUBW 25-06A6		11	1.4		27.5	16.0	2.1	1.35		18	1.7
MUBW 35-06A6		25	1.05		38.0	25.0	2.1	1.0		23	1.5
1200 V CBI modules											
MUBW 10-12A6	1000	11	1.4	1200	13.0	8.0	2.8	1.55	1200	2.5	2.3
MUBW 15-12A6		25	1.05		18.0	11.5	2.6	1.5		8	1.55
MUBW 30-12A6		25	1.05		31.0	17.0	2.2	1.0		9	1.5

CBI 2
IGBT - Modules

Fig. 81

New

Type	Rectifier 3~			V_{CES}	Inverter 3~				Brake chopper		
	V_{RRM}	I_{FAV} $T_C = 80^\circ C$ $d = 1/3$	R_{thJC} max.		I_C $T_C = 25^\circ C$	I_C $T_C = 80^\circ C$	$V_{CE(sat)}$ typ.	R_{thJC} max.	V_{CES}	I_C $T_C = 80^\circ C$	R_{thJC} max.
	V	A	K/W	V	A	A	V	K/W	V	A	K/W
600 V CBI modules											
MUBW 10-06A7	1600	18	1.5	600	20	15	1.9	1.5	600	15	1.5
MUBW 15-06A7		18	1.5		25	18	1.9	1.3		15	1.5
MUBW 20-06A7		24	1.3		35	25	1.9	1.0		18	1.4
MUBW 30-06A7		24	1.3		50	35	1.9	0.7		18	1.3
MUBW 50-06A7		29	1.1		75	50	1.9	0.5		25	1.0
1200 V CBI modules											
MUBW 10-12A7	1600	18	1.5	1200	20	15	2.3	1.2	1200	15	1.2
MUBW 15-12A7		24	1.3		35	25	2.0	0.7		15	1.2
MUBW 25-12A7		24	1.3		50	35	2.2	0.55		15	1.2
MUBW 35-12A7		29	1.1		50	35	2.5	0.55		25	0.7
1200 V CBI modules with NPT³ IGBT											
MUBW 35-12E7	1200	29	1.1	1200	52	35	7.0	0.55	1200	25	0.7

Preliminary data