

2.2 Product Matrix : Discretes Modules

The full Hitachi IGBT line up is carefully designed to meet a wide range of user needs.

(There are future plans for a further expansion of this line up.)

Table 15 : Total IGBT Product Range

Ratings		10	15	20	30	50	60	75
Voltage (V)	Current (A)							

DISCRETES

450					GN4530C			
600	GN6010A	GN6015A	GN6020C	GN6030C	GN6050E		GN6075E	
900						GN9060E		
1200		GN12015C		GN12030E	GN12050E			
1700			* GN17020E					

Ratings

Ratings		50	60	75	100	150	200	300	400
Voltage (V)	Current (A)								

SINGLE-ARM

600							MBN300A6	MBN400A6
1200						MBN200F12	MBN300F12	

SINGLE-PHASE (DUAL PACK)

600	MBM50A6		MBM75A6	MBM100A6	MBM150A6	MBM200A6	MBM300A6	
1200	MBM50F12		MBM75F12	MBM100F12	MBM150F12			

THREE-PHASE (SIX PACK)

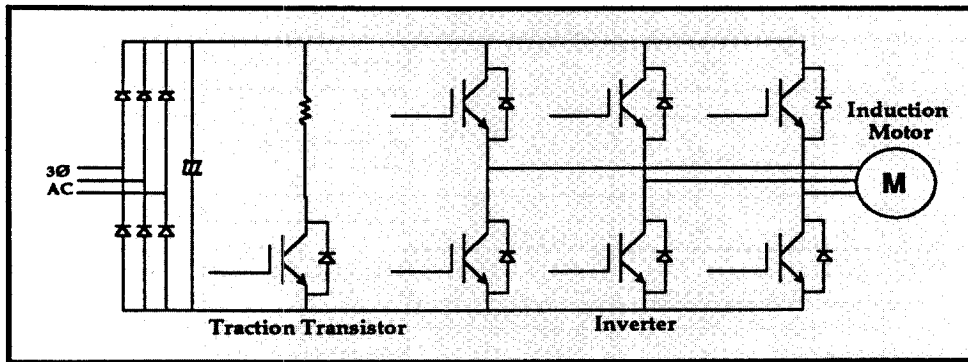
600	MBB50A6		MBB75A6	MBB100A6				
1200	MBB50F12							

* Under Development

5. Applications

5.1 Industrial (1)

AC Drive - Induction Motor



Recommended IGBT Discrete Range

200V AC Input (V _{ces} = 600V)									
Power output	KVA	1.5	2.5	3.5	5.5	8.0	11.0	16.0	22.0
	KW	0.75	1.5	2.2	3.7	5.5	7.5	11.0	15.0
Inverter		GN6015A	GN6020C	GN6030C	GN6050E	GN6075E	GN6050E x2	GN6075E x2	GN6050E x4
Traction		GN6010A	GN6010A	GN6015A	GN6020C	GN6030C	GN6050E	GN6075E	GN6050E x2

400V AC Input (V _{ces} = 1200V)							
Power output	KVA	5.5	8.0	11.0	16.0	22.0	33.0
	KW	3.7	5.5	7.5	11.0	15.0	22.0
Inverter		GN6030C	GN6050E	GN6050E	GN6075E	GN6050E x2	GN6075E x2
Traction		GN6015A	GN6020C	GN6030C	GN6050E	GN6050E	GN6075E

Recommended IGBT Module Range

3Ø 200V AC Input

Motor (kW)	Inverter (kVA)	Inverter Trs
3.7	5.5	MBB50A6
5.5	7.5	MBB75A6
7.5	11	MBB100A6
11	16	MBM150A6 x 3
15	22	MBM200A6 x 3
18.5	25	MBM300A6 x 3
22	33	MBM300A6 x 3
30	40	MBN400A6 x 6
37	50	MBN300A6 x 12
45	60	MBN300A6 x 12

3Ø 400V AC Input

Motor (kW)	Inverter (kVA)	Inverter Trs
5.5	7.5	MBB50F12
7.5	11	MBB50F12
11	16	MBM75F12 x 3
15	22	MBM100F12 x 3
18.5	25	MBM150F12 x 3
22	33	MBM150F12 x 3
30	40	MBN200F12 x 6
37	50	MBN300F12 x 6
45	60	MBN300F12 x 6
55	75	MBN200F12 x 12
75	100	MBN300F12 x 12