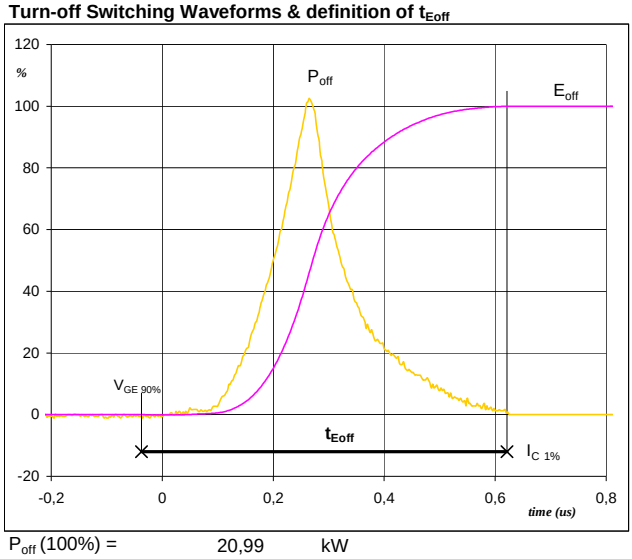
Switching Definitions Output Inverter

Figure 5 Output inverter IGBT

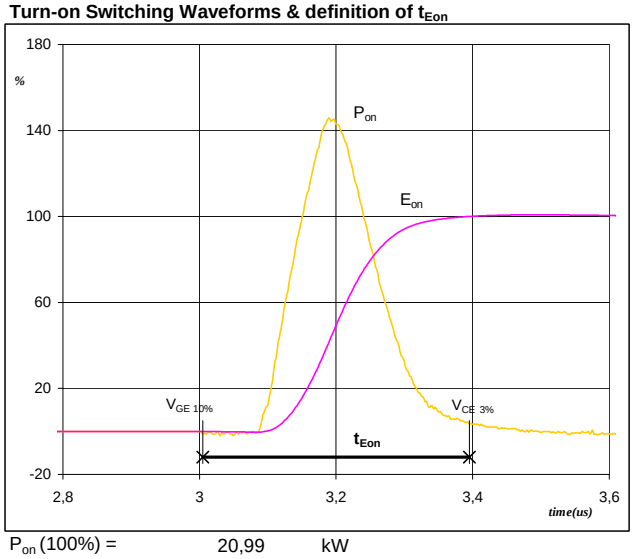
Turn-off Switching Waveforms & definition of t_{Eoff}



P_{off} (100%) =	20,99	kW
E_{off} (100%) =	3,38	mJ
t_{Eoff} =	0,66	µs

Figure 6 Output inverter IGBT

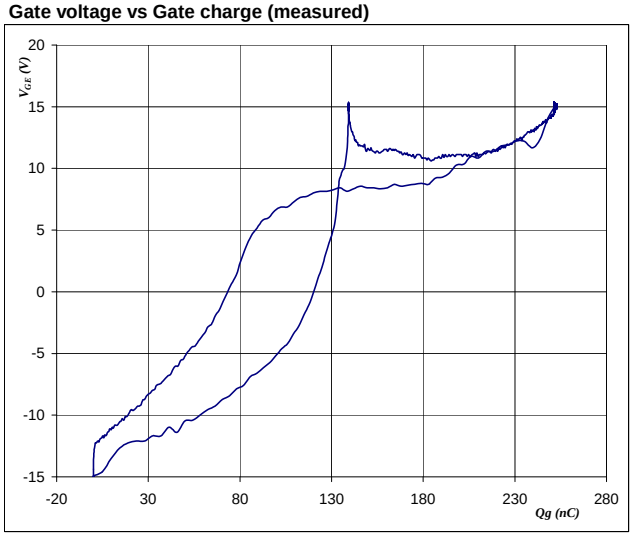
Turn-on Switching Waveforms & definition of t_{Eon}



P_{on} (100%) =	20,99	kW
E_{on} (100%) =	4,08	mJ
t_{Eon} =	0,39	µs

Figure 7 Output inverter IGBT

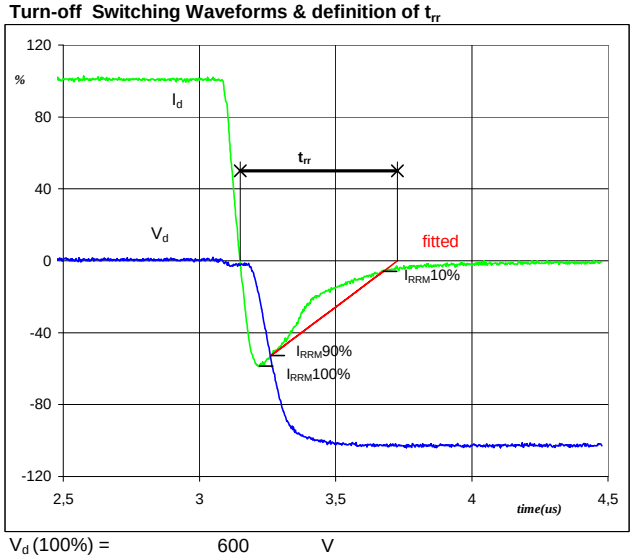
Gate voltage vs Gate charge (measured)



V_{GEoff} =	-15	V
V_{GEon} =	15	V
V_C (100%) =	600	V
I_C (100%) =	35	A
Q_g =	252,70	nC

Figure 8 Output inverter FWD

Turn-off Switching Waveforms & definition of t_{rr}



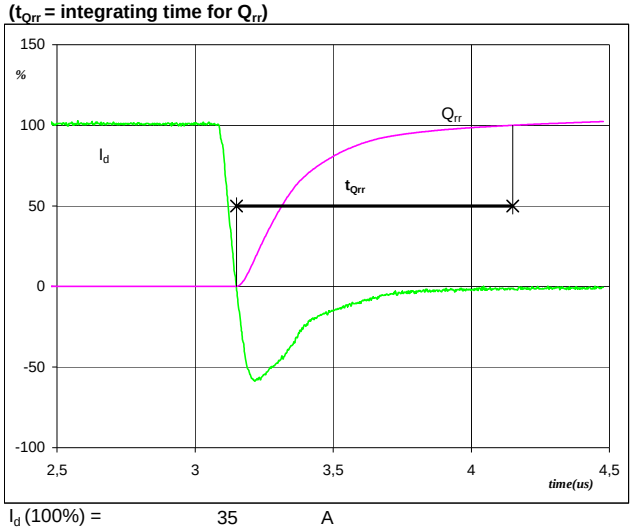
V_d (100%) =	600	V
I_d (100%) =	35	A
I_{RRM} (100%) =	-21	A
t_{rr} =	0,57	µs

Switching Definitions Output Inverter

Figure 9 Output inverter FWD

Turn-on Switching Waveforms & definition of t_{Qrr}

(t_{Qrr} = integrating time for Q_{rr})

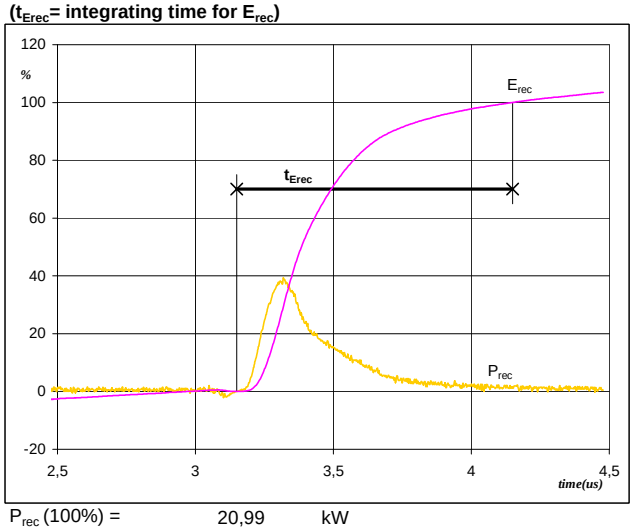


I_d (100%) =	35	A
Q_{rr} (100%) =	5,50	µC
t_{Qrr} =	1,00	µs

Figure 10 Output inverter FWD

Turn-on Switching Waveforms & definition of t_{Erec}

(t_{Erec}= integrating time for E_{rec})



P_{rec} (100%) =	20,99	kW
E_{rec} (100%) =	2,27	mJ
t_{Erec} =	1,00	µs

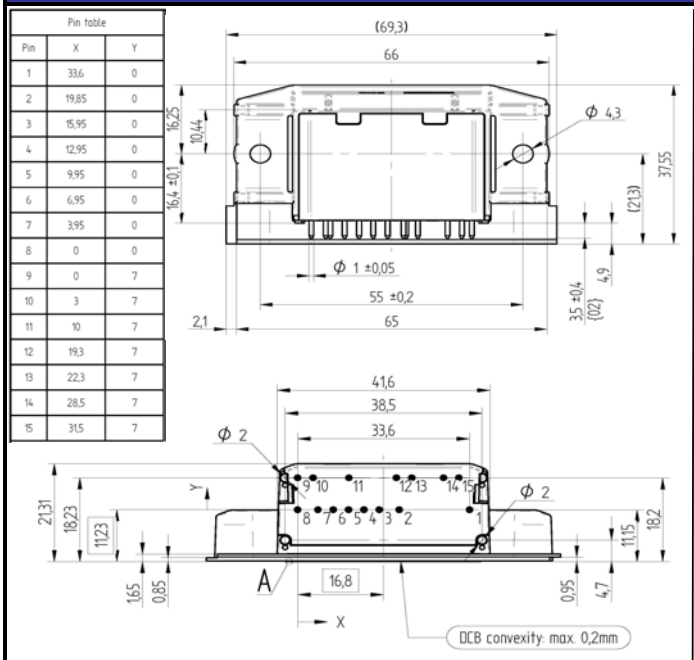
Ordering Code and Marking - Outline - Pinout

Ordering Code & Marking

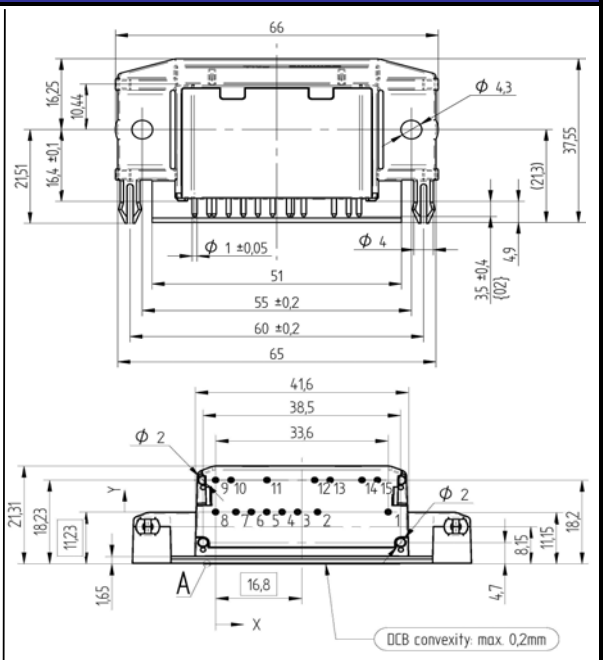
Version	Ordering Code	in DataMatrix as	in packaging barcode as
without thermal paste ,housing without clips	10-RZ126PA035SC-M620F41	M620F41	M620F41
without thermal paste ,housing with clips	10-R0126PA035SC-M620F40	M620F40	M620F40

Outline

Pin table		
Pin	X	Y
1	33,6	0
2	19,85	0
3	15,95	0
4	12,95	0
5	9,95	0
6	6,95	0
7	3,95	0
8	0	0
9	0	7
10	3	7
11	10	7
12	19,3	7
13	22,3	7
14	28,5	7
15	31,5	7

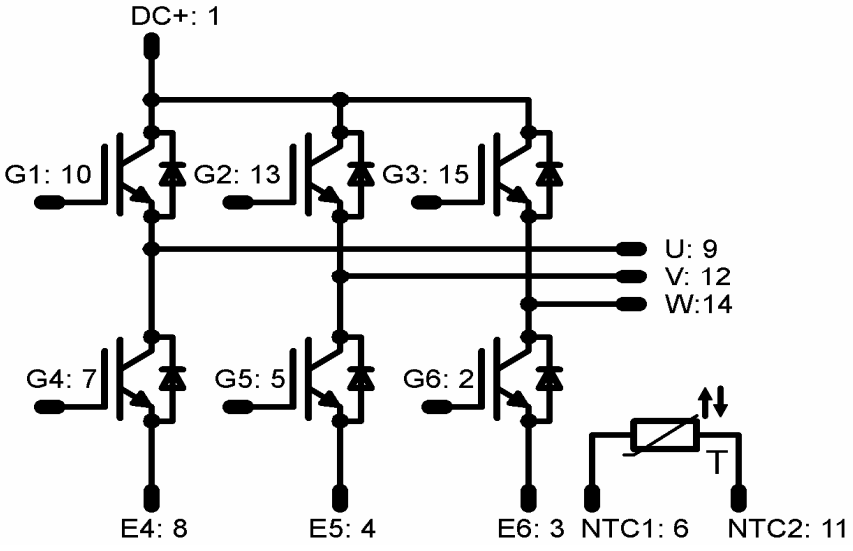


without clips



with clips

Pinout



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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.