

semikron.com **WSM und PIM nahtlos integriert**

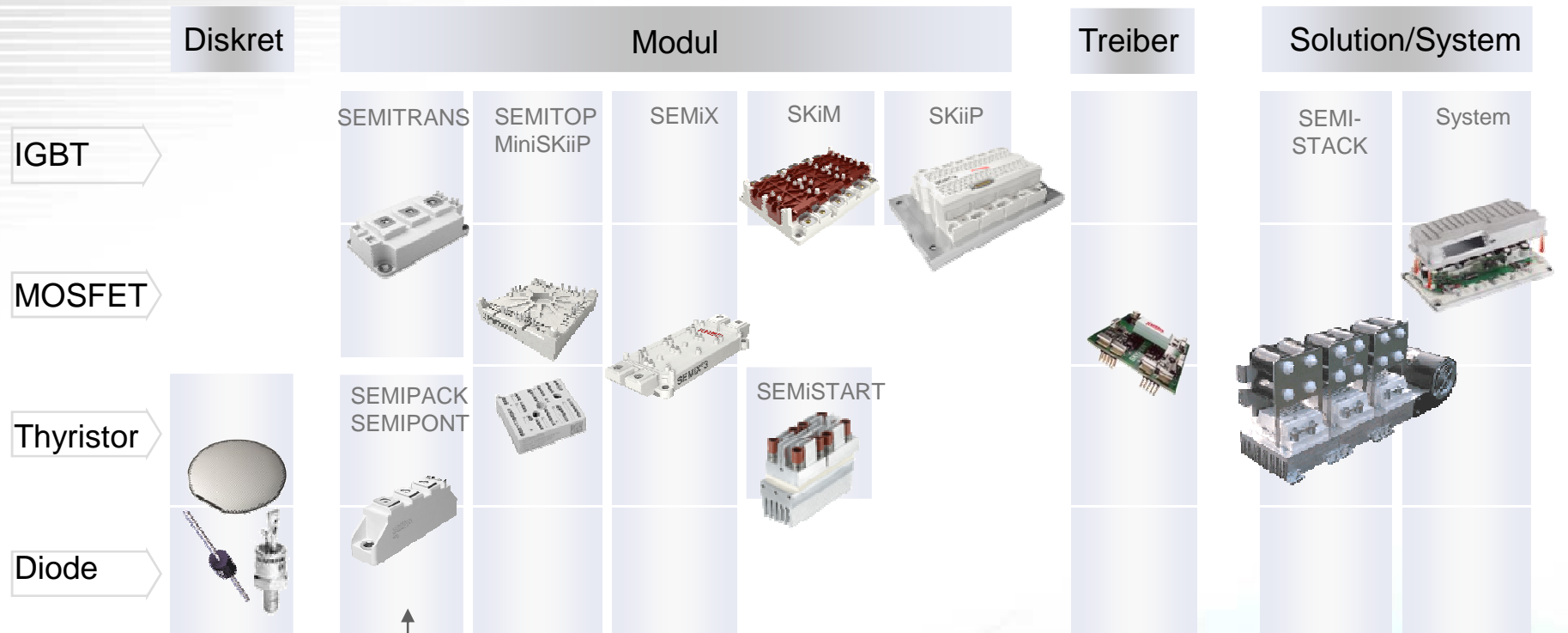
Stefan Popp
SEMIKRON International GmbH & Co. KG

Kontinuität im Management

- 1951 gegründet von Dr. Fritz Martin
- 35 Gesellschaften weltweit
- 10 Produktionsstandorte
- 3200 Mitarbeiter
- Privat und eigenfinanziert

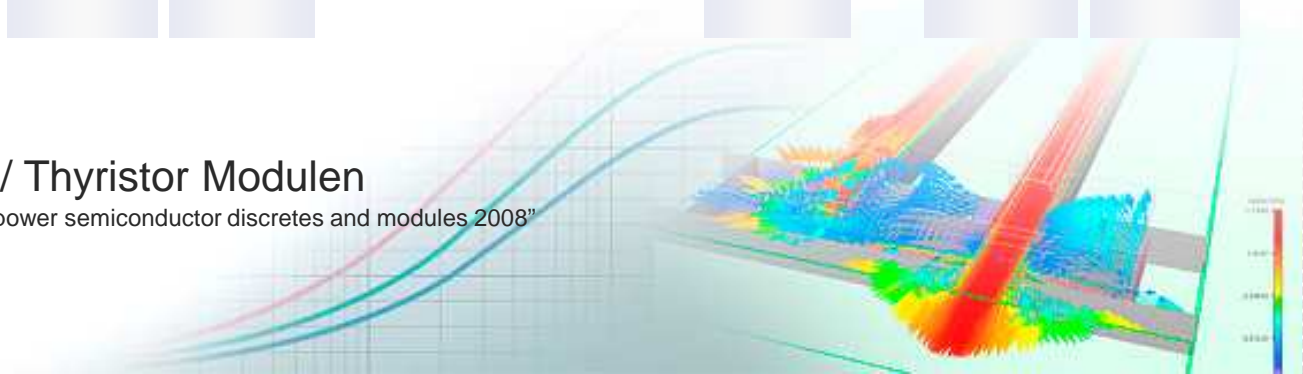


Fokus Leistungshalbleiter - Vom Chip zum System



37% Marktanteil bei Dioden / Thyristor Modulen

Quelle: IMS Research "The worldwide market for power semiconductor discretes and modules 2008"



3 Wachstumsmärkte

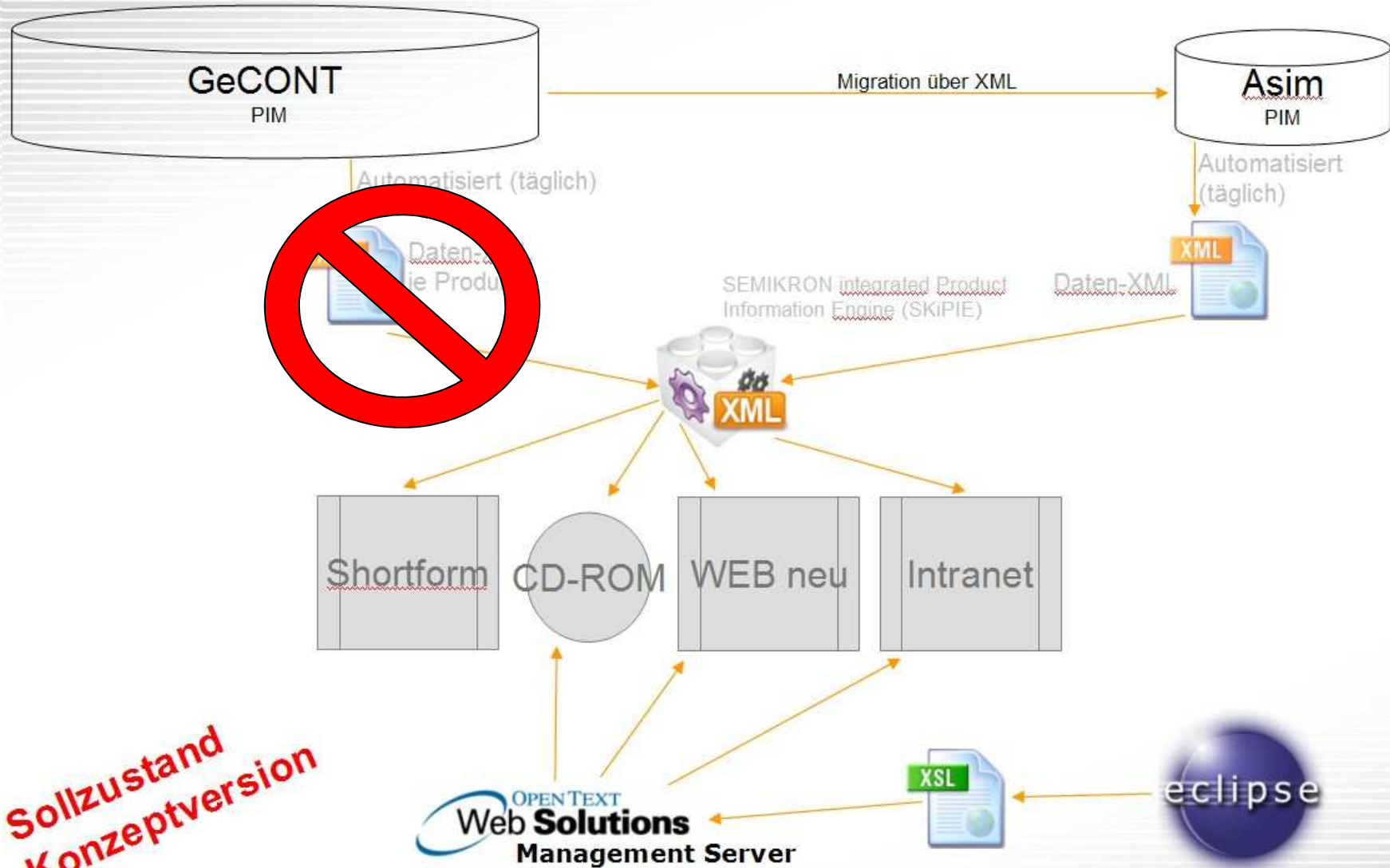
➤ Systeme, Solutions, SKiiP in:



- Fast jede 2. Windanlage ist mit SEMIKRON Technologie ausgestattet
 - 57 GW installierte Windleistung enthält SEMIKRON
 - 122 Gigawatt ist die weltweit installierte Windleistung seit 1993 (Quelle: BTM Consult ApS, 03/2009)
- 530.000 Elektrogabelstapler sind mit SEMIKRON Systemen ausgestattet
- 7.000 Hybridbusse mit SKiM sparen 30% Treibstoff

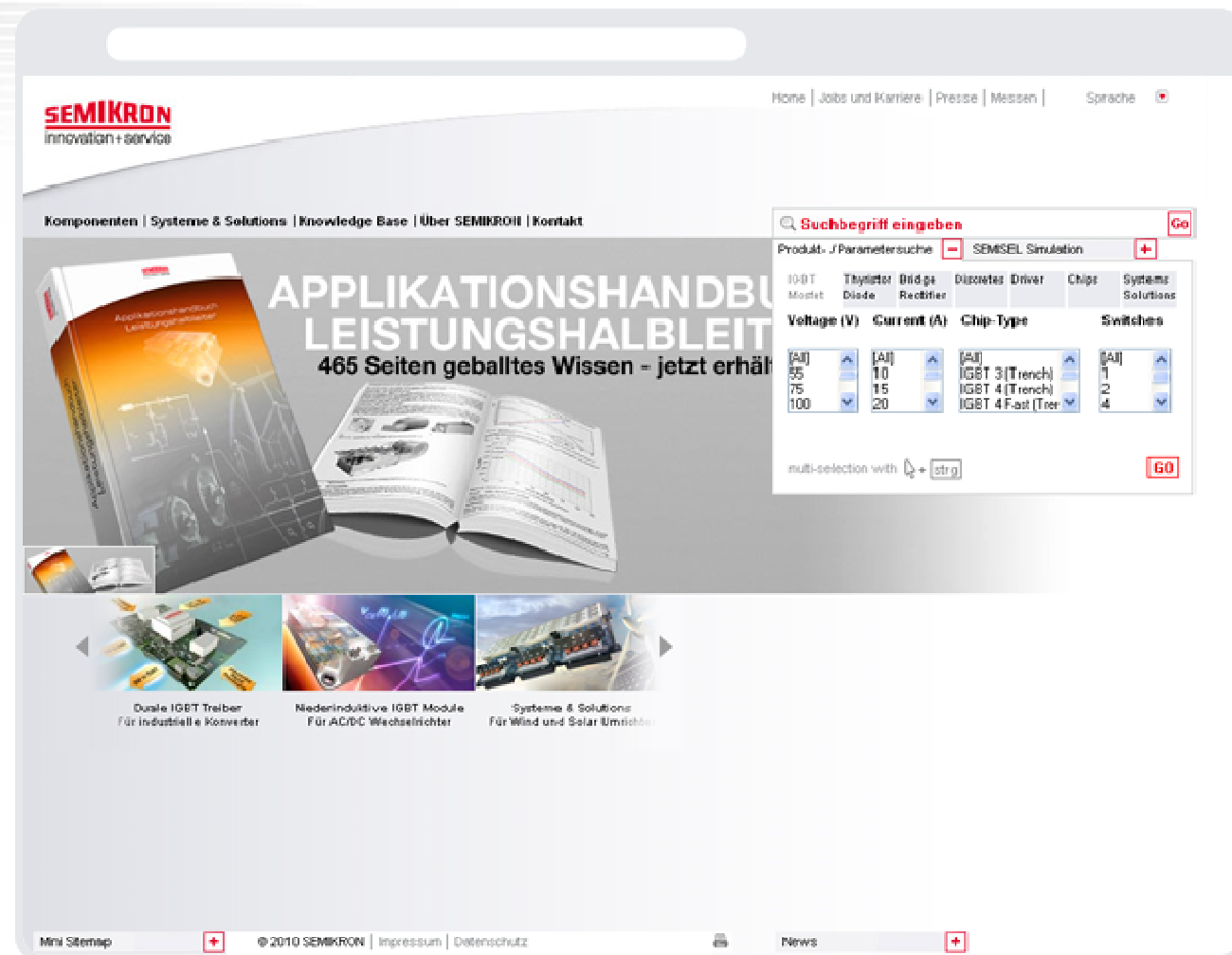


semikron.com – Realisierungskonzept SKiPIE




**Sollzustand
Konzeptversion**

- Suggest-Funktion
- Mehrsprachig
- PDF Download
- CSV Download
- GA Integration



The screenshot displays the SEMİKRON website interface. At the top left is the SEMİKRON logo with the tagline 'innovation+service'. The top right contains navigation links: Home | Jobs und Karriere | Presse | Messen | Sprache. Below the logo is a secondary navigation bar with links: Komponenten | Systeme & Solutions | Knowledge Base | Über SEMİKRON | Kontakt. The main content area features a large banner for the 'APPLIKATIONSHANDBUCH LEISTUNGSHALBLEIT' (Application Handbook Power Semiconductor), which is 465 pages of condensed knowledge. To the right of the banner is a search interface with a search bar containing 'Suchbegriff eingeben' and a 'Go' button. Below the search bar is a 'Produkt- / Parametersuche' section with a 'SEMSEL Simulation' link. A table below this section lists various semiconductor products with filters for Voltage (V), Current (A), Chip-Type, and Switches. The table has columns for IGBT Model, Thyristor Diode, Bridge Rectifier, Diacmeter Driver, Chip, and Systems Solutions. The table content is as follows:






IGBT Model	Thyristor Diode	Bridge Rectifier	Diacmeter Driver	Chip	Systems Solutions
[All]	[All]	[All]	[All]	[All]	[All]
55	10	IGBT 3 (Trench)	1		
75	15	IGBT 4 (Trench)	2		
100	20	IGBT 4 Fast (Trench)	4		

Below the table is a note: 'multi-selection with  + **str g**' and a 'GO' button. At the bottom of the page, there is a footer with 'Mini Sitemap', '© 2010 SEMİKRON | Impressum | Datenschutz', and 'News'.

- Cross Referenz Funktion
- Sortierung und Produktselektor nach Produktsuche verfeinern
- Datenblätter bei Import mit Metadaten versehen
- Volltextsuche für „spezielle“ Produkte erweitern (SKB 15A ... SKB 15L)

Ausblick: ShortForm Katalog / Phase II und III

IGBT Module

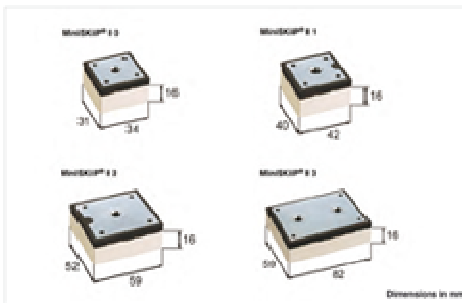






Modules - IGBT - MiniSKiIP

Type	V _{CE} 25°C	I _{CE} 25°C	IGBT			V _{CE} 25°C	I _{CE} 25°C	R _{th(j-c)} K/W	R _{th(j-e)} K/W	R _{th(c-e)} K/W	S _{tot} mm ²	Circuit
			V _{CE} 25°C	I _{CE} 25°C	R _{th(j-c)} K/W							
600 V - IGBT 3 (Trench)												
SKM11D1000D1	60	15	1.10	1.7	1.7	0.00	30	1.9	1.9	1.9	9.1	
SKM11D1000D2	30	75	1.10	2.7	2	0.75	77	1.9	1.9	1.9	9.2	
SKM11D1000D3	150	15	1.10	2.4	1.9	0.5	70	1.9	1.9	1.9	9.2	
SKM11D1000D4	20	75	1.10	2.45	2.5	2	30	1.9	1.9	1.9	9.2	
SKM11D1000D5	27	15	1.10	2.3	2.5	1.9	30	1.9	1.9	1.9	9.2	
SKM11D1000D6	30	30	1.10	2.3	2.7	1.9	30	1.9	1.9	1.9	9.2	
SKM11D1000D7	40	30	1.10	2	1.9	1.9	30	1.9	1.9	1.9	9.1	
SKM11D1000D8	60	15	1.10	1.9	1.9	0.00	30	1.9	1.9	1.9	9.2	
SKM11D1000D9	60	75	1.10	2.7	2	0.75	77	1.9	1.9	1.9	9.2	
SKM11D1000D10	150	15	1.10	2.4	1.9	0.5	70	1.9	1.9	1.9	9.2	
SKM11D1000D11	150	15	1.10	2.3	1.9	0.5	70	1.9	1.9	1.9	9.2	
600 V - NPT IGBT (BluePack)												
SKM11D1000D12	60	30	1.2	1.7	1.4	1.25	30	1.9	1.9	1.9	9.1	
SKM11D1000D13	30	30	1.2	1	1.5	1.00	30	1.9	1.9	1.9	9.1	
SKM11D1000D14	60	15	1.2	1.5	1.0	0.75	30	1.9	1.9	1.9	9.2	
SKM11D1000D15	60	30	1.2	1.5	1.4	1.00	30	1.9	1.9	1.9	9.2	
SKM11D1000D16	60	150	1.2	2.1	1.9	0.5	30	1.9	1.9	1.9	9.2	
SKM11D1000D17	150	15	1.2	2	1.7	0.5	100	1.9	1.9	1.9	9.2	
1200 V - IGBT 3 (Trench)												
SKM11D1000D18	120	9	1.7	2.0	1	1.3	18	1.9	1.9	1.9	9.1	
SKM11D1000D19	30	75	1.7	1.7	1.9	1.00	30	1.9	1.9	1.9	9.2	
SKM11D1000D20	40	30	1.7	2.1	1.9	0.9	30	1.9	1.9	1.9	9.1	
SKM11D1000D21	45	25	1.7	2.7	1.7	0.9	30	1.9	1.9	1.9	9.2	
SKM11D1000D22	50	25	1.7	2.7	1.9	0.75	30	1.9	1.9	1.9	9.2	
SKM11D1000D23	75	20	1.7	2.6	1.9	0.90	30	1.9	1.9	1.9	9.2	
SKM11D1000D24	97	15	1.7	2.6	1.7	0.40	30	1.9	1.9	1.9	9.2	
SKM11D1000D25	110	15	1.7	2.5	1.7	0.2	100	1.9	1.9	1.9	9.2	
SKM11D1000D26	120	15	1.7	2.6	1.7	0.2	100	1.9	1.9	1.9	9.2	
SKM11D1000D27	150	15	1.7	2.5	1.7	0.2	100	1.9	1.9	1.9	9.2	
SKM11D1000D28	150	15	1.7	2.5	1.7	0.2	100	1.9	1.9	1.9	9.2	
SKM11D1000D29	157	15	1.7	2.5	1.7	0.2	107	1.9	1.9	1.9	9.2	
SKM11D1000D30	110	15	1.7	2.4	1.7	0.2	110	1.9	1.9	1.9	9.2	
SKM11D1000D31	127	15	1.7	2.5	1.7	0.2	107	1.9	1.9	1.9	9.2	

Modules - IGBT - SEMIX

Type	V _{CE} 25°C	I _{CE} 25°C	IGBT			V _{CE} 25°C	I _{CE} 25°C	R _{th(j-c)} K/W	R _{th(j-e)} K/W	R _{th(c-e)} K/W	S _{tot} mm ²	Circuit
			V _{CE} 25°C	I _{CE} 25°C	R _{th(j-c)} K/W							
1200 V - IGBT 4 (Trench)												
SKM11D1000D32	120	9	1.80	2.00	1.70	1.30	18	2.4	2.4	2.4	9.1	
SKM11D1000D33	30	75	1.80	1.80	1.9	1.3	30	2.4	2.4	2.4	9.2	
SKM11D1000D34	40	30	1.80	2.7	2.4	1.0	30	2.4	2.4	2.4	9.1	
SKM11D1000D35	45	25	1.80	2.7	2.4	1.0	30	2.4	2.4	2.4	9.2	
SKM11D1000D36	50	25	1.80	2.7	2.4	0.75	30	2.4	2.4	2.4	9.2	
SKM11D1000D37	75	20	1.80	2.5	2.4	0.90	30	2.4	2.4	2.4	9.2	
SKM11D1000D38	97	15	1.80	2.5	2.4	0.40	30	2.4	2.4	2.4	9.2	
SKM11D1000D39	110	15	1.80	2.5	2.4	0.2	100	2.4	2.4	2.4	9.2	
SKM11D1000D40	120	15	1.80	2.5	2.4	0.2	100	2.4	2.4	2.4	9.2	
SKM11D1000D41	157	15	1.80	2.5	2.4	0.2	107	2.4	2.4	2.4	9.2	



Dimensions in mm

14

15

Ausblick: Integration in SEMISEL

SEMILKRON
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Semisel - Simulation Software

Step By Step Design | Ready Assembled Stack | Device Proposal | Driver Select Tool

Semisel >> Simulation

Version 3.1.1.3 23/01/2011

Circuit

Topology

- AC/DC B2U ▾
- AC/AC W3C ▾
- DC/AC Inverter 3 Phases ▾
- DC/DC SR Motor ▾
Buck
Boost
SR Motor

Circuit

Input parameters ...

Ausblick: Datenlieferung an Distributoren

- Produktdaten aus PIM und
 - Preise, Lieferzeit, etc. aus ERP
-
- ▶ XML
 - ▶ CSV
 - ▶ SOAP

Vielen Dank

