

Product change notification (PCN)

Title / short description Redesign M12 SMD product series - Package II - Rescheduling to an earlier date
Affected article category Connector
Change category
Change number CAB240077-03-0
Reason for PCN/PDN Revision

Purpose/objective of the change

Product optimisation

Detailed description of the change

As part of our continuous improvement process and to ensure delivery performance, we are making changes to the M12 and M8 SMD connectors.

We need to reschedule the PCN to an earlier date in order to ensure delivery capability.

These adjustments are necessary so that the items can be manufactured fully automatically in the future.

It is important to note that the new design is backwards compatible with the old design.

A detailed description of the changes can be found in the attached document.

Identifying characteristics

Start of Production (SOP)	2026-06-01	Last Time Delivery (LTD)	2026-05-31
Effective date (EOP)	2026-06-01	End of Service (EOSR)	-
End of Sales (EOS)	-		

Short-term change (< 6 months) or discontinuation (< 12 months), due to:

- | | | |
|---|--|--|
| <input type="checkbox"/> Software / Firmware Bugfix | <input checked="" type="checkbox"/> Short-term delivery stop by supplier | <input type="checkbox"/> Short-term recall by supplier |
| <input type="checkbox"/> Force majeure | <input type="checkbox"/> Product improvement with customer benefits | |
| <input type="checkbox"/> Others | | |

Attachments

- Redesign M12 SMD product series Package II.pdf
- Material_list.csv
- PCN-CAB240077-03-0_EN

Material list

Item no.	Item Type	Hardware old	Firmware new	Item no.	Substitute item Type
1066970	SACC-CIP-M12FS-4P SMD T PD	2	3		
1075425	SACC-CI-M8FSD-4P SMD R32 FES	2	3		
1114556	SACC-CIP-M8MSB-5P SMD SH T	0	1		
1157452	SACC-CIP-M12FS-5P SMD R32 PD	1	2		
1163177	SACC-CIP-M8FSD-4P SMD R32	1	2		
1238923	SACC-CI-M12MS-8P SMD TX	0	1		
1238947	SACC-CI-M12FS-17P SMD R32X	0	1		
1238949	SACC-CI-M12MS-8P SMD R32X	0	1		
1238959	SACC-CIP-M12MS-8P SMD SH R32X	0	1		
1238960	SACC-CIP-M12MS-12P SMD SH R32X	0	1		
1238961	SACC-CIP-M12MS-17P SMD SH R32X	0	1		
1238962	SACC-CIP-M12MST-4P SMD SH R32X	0	1		
1238976	SACC-CI-M8FSB-5P SMD TX	0	1		
1308041	SACC-CIP-M12FS-4P SMD TX	0	1		
1308044	SACC-CIP-M12FSD-4P SMD TX	0	1		
1308045	SACC-CIP-M12FS-5P SMD TX	0	1		
1308046	SACC-CIP-M12FSB-5P SMD TX	0	1		
1308050	SACC-CIP-M12MS-5P SMD TX	0	1		
1308055	SACC-CIP-M12MSB-5P SMD TX	0	1		
1308163	SACC-CIP-M12MS-5P SMD SH TX	0	1		
1308168	SACC-CI-M12MS-5P SMD R32X	0	1		
1308207	SACC-CIP-M12MS-5P SMD R32X	0	1		
1308208	SACC-CIP-M12MSB-5P SMD R32X	0	1		
1308210	SACC-CIP-M12FSD-4P SMD SH R32X	0	1		
1308214	SACC-CIP-M12FS-8P SMD SH R32X	0	1		
1308261	SACC-CIP-M8FS-3P SMD SH TX	0	1		
1308262	SACC-CIP-M8FS-4P SMD SH TX	0	1		
1308267	SACC-CI-M8MS-3P SMD R32X	0	1		
1308279	SACC-CIP-M8FS-4P SMD SH R32X	0	1		
1308281	SACC-CIP-M8MS-3P SMD SH R32X	0	1		
1308297	SACC-CIP-M12MSB-5P SMD SH R32X	0	1		
1311885	SACC-CIP-M8FS-3P SMD SH R32PD	0	1		
1411916	SACC-CI-M12FS-12P SMD T	1	2		
1411917	SACC-CI-M12FS-17P SMD T	0	1		
1411918	SACC-CI-M12FST-4P SMD T	1	2		
1411928	SACC-CI-M12MS-8P SMD T	4	5		
1411929	SACC-CI-M12MS-12P SMD T	2	3		

Item no.	Item Type	Hardware old	Firmware new	Item no.	Substitute item Type
1411930	SACC-CI-M12MS-17P SMD T	2	3		
1411931	SACC-CI-M12MST-4P SMD T	3	4		
1411940	SACC-CIP-M12FS-12P SMD T	1	2		
1411945	SACC-CIP-M12MS-8P SMD T	4	5		
1411946	SACC-CIP-M12MS-12P SMD T	2	3		
1411947	SACC-CIP-M12MS-17P SMD T	2	3		
1411948	SACC-CIP-M12MST-4P SMD T	3	4		
1411954	SACC-CIP-M12FS-12P SMD SH T	1	2		
1411959	SACC-CIP-M12MS-8P SMD SH T	4	5		
1411960	SACC-CIP-M12MS-12P SMD SH T	2	3		
1411961	SACC-CIP-M12MS-17P SMD SH T	2	3		
1411962	SACC-CIP-M12MST-4P SMD SH T	3	4		
1411966	SACC-CI-M12FS-17P SMD SH T	0	1		
1411967	SACC-CI-M12FST-4P SMD SH T	1	2		
1411979	SACC-CI-M12FS-12P SMD R32	1	2		
1411980	SACC-CI-M12FS-17P SMD R32	0	1		
1411981	SACC-CI-M12FST-4P SMD R32	1	2		
1411986	SACC-CI-M12MS-8P SMD R32	4	5		
1411987	SACC-CI-M12MS-12P SMD R32	2	3		
1411988	SACC-CI-M12MS-17P SMD R32	2	3		
1411989	SACC-CI-M12MST-4P SMD R32	3	4		
1411995	SACC-CIP-M12FS-12P SMD R32	1	2		
1412000	SACC-CIP-M12MS-8P SMD R32	4	5		
1412001	SACC-CIP-M12MS-12P SMD R32	2	3		
1412002	SACC-CIP-M12MS-17P SMD R32	2	3		
1412003	SACC-CIP-M12MST-4P SMD R32	3	4		
1412009	SACC-CIP-M12FS-12P SMD SH R32	1	2		
1412014	SACC-CIP-M12MS-8P SMD SH R32	4	5		
1412015	SACC-CIP-M12MS-12P SMD SH R32	2	3		
1412016	SACC-CIP-M12MS-17P SMD SH R32	2	3		
1412017	SACC-CIP-M12MST-4P SMD SH R32	3	4		
1412018	SACC-CI-M12FS-17P SMD SH R32	0	1		
1412019	SACC-CI-M12FST-4P SMD SH R32	1	2		
1069566	SACC-CI-M12FSY-8P SMD SH R32	1	2		
1081252	SACC-CI-M12FSX-8P SMD SH R32PD	1	2		
1411964	SACC-CI-M12FSX-8P SMD SH T	1	2		
1411965	SACC-CI-M12FSY-8P SMD SH T	1	2		

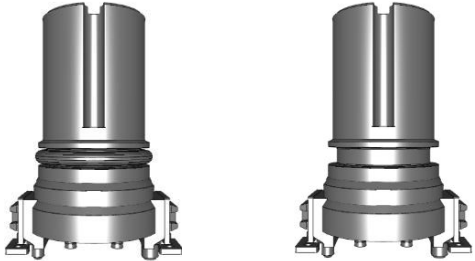



Willkommen

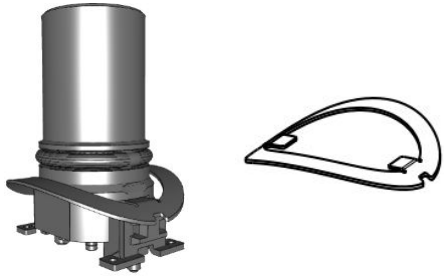
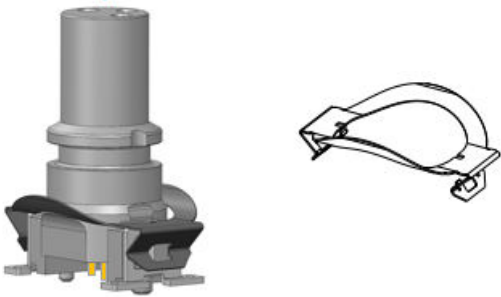

Redesign M12 & M8 SMD product series Package II



Contact Design

	Old	New
		All M8 and M12 3-/4-/5-pol connectors without O-Ring will be changed to stamped contacts
Design	 <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: #006666; color: white; padding: 5px; text-align: center;">with O-Ring</div> <div style="background-color: #006666; color: white; padding: 5px; text-align: center;">w/o O-Ring</div> </div> <div style="background-color: #006666; color: white; padding: 10px; text-align: center; margin-top: 10px;">Turned contacts</div>	 <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: #006666; color: white; padding: 5px; text-align: center;">with O-Ring</div> <div style="background-color: #006666; color: white; padding: 5px; text-align: center;">w/o O-Ring</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: #006666; color: white; padding: 10px; text-align: center;">Turned contacts</div> <div style="background-color: #006666; color: white; padding: 10px; text-align: center;">Stamped contacts</div> </div>

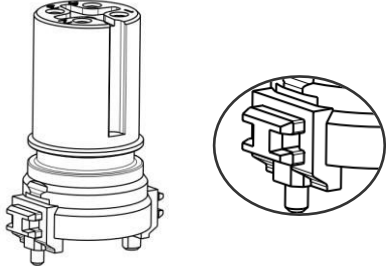
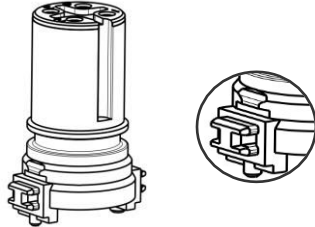
Improved Shield Plate - Design

	Old	New
Design		 <ul style="list-style-type: none">✓ Improved fixation → increased transport safety✓ Optimized spring force <p>→ Reduction of assembly force - housing on contact carrier</p> 

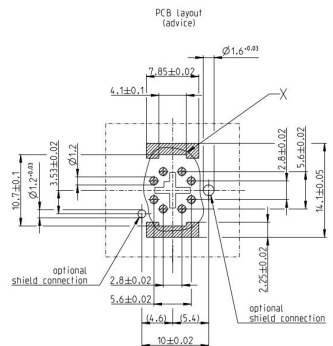
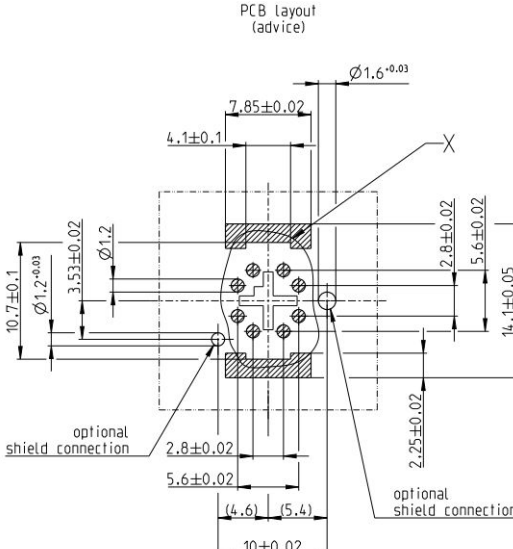
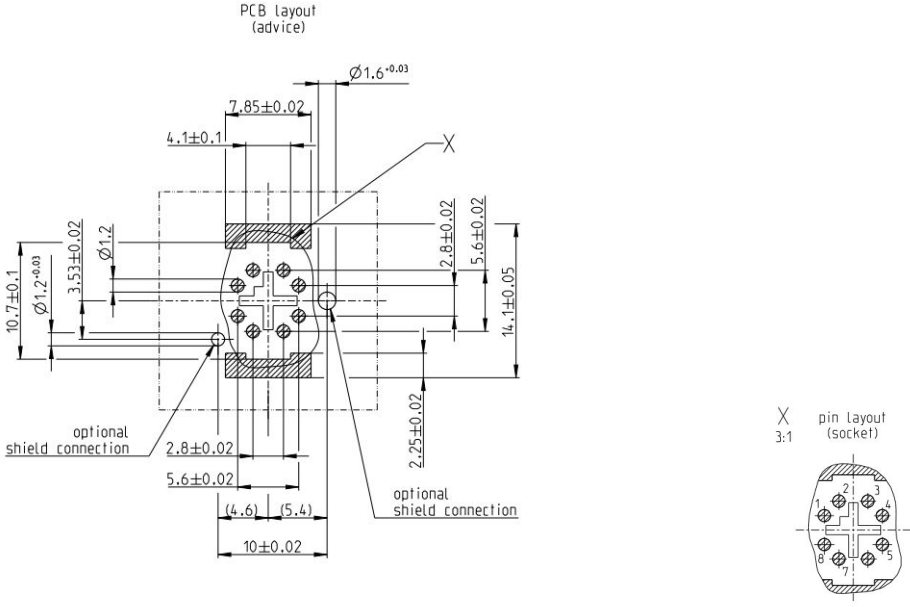
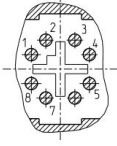
Improved Shield Plate – Dimension

	Old		New	
Example M12 socket	<p>unmated</p>	<p>mated</p>	<p>unmated</p>	<p>mated</p>

Alignment Pin

	Old	New
		The change of the alignment pins alligns to all M8 and M12 A-(3-/4-/5-/8-pos.), B- and D-cod. connectors
Design	 <p>Alignment pin = 1,35mm</p>	 <p>Alignment pin = 0,6mm</p> <ul style="list-style-type: none">✓ Shortest alignment pins in the market✓ No through-hole through PCB necessary - blind hole sufficient✓ PCB assembly on both sides possible

PCB Layout

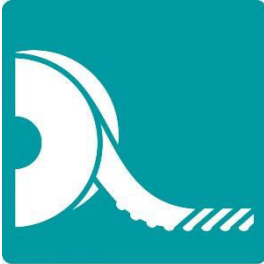

	Old	New
Design	 <p>Technical drawing of the old PCB layout. Dimensions include: 10.7 ± 0.1, $\varnothing 1.2$, 3.53 ± 0.02, $\varnothing 1.2$, 7.85 ± 0.02, 4.1 ± 0.1, 2.8 ± 0.02, 5.6 ± 0.02, 14.1 ± 0.05, 2.25 ± 0.02, 2.8 ± 0.02, 5.6 ± 0.02, 10 ± 0.02, 4.6, 5.4, and $\varnothing 1.6^{+0.03}$. Callout 'X' points to a feature. A large teal checkmark is overlaid on the drawing.</p> <p>X 3:1 pin layout (socket)</p> 	 <p>Technical drawing of the new PCB layout. Dimensions include: 10.7 ± 0.1, $\varnothing 1.2^{+0.03}$, 3.53 ± 0.02, $\varnothing 1.2$, 7.85 ± 0.02, 4.1 ± 0.1, 2.8 ± 0.02, 5.6 ± 0.02, 14.1 ± 0.05, 2.25 ± 0.02, 2.8 ± 0.02, 5.6 ± 0.02, 10 ± 0.02, 4.6, 5.4, and $\varnothing 1.6^{+0.03}$. Callout 'X' points to a feature.</p> <p>X 3:1 pin layout (socket)</p> 
<p>Backwards-compatible Layout change of PCB not necessary</p>		

RoHS II Directive

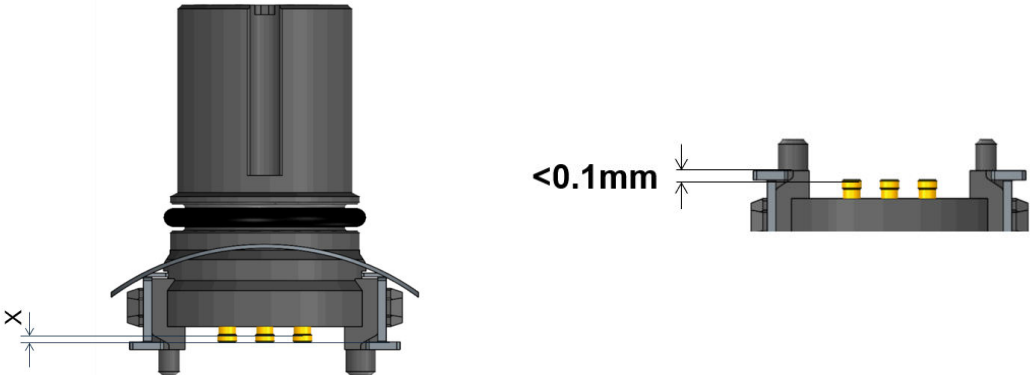
	Old	New
Materials	ROHS II w/ exemption 6(c)	ROHS II compliant w/o exemption 6(c)




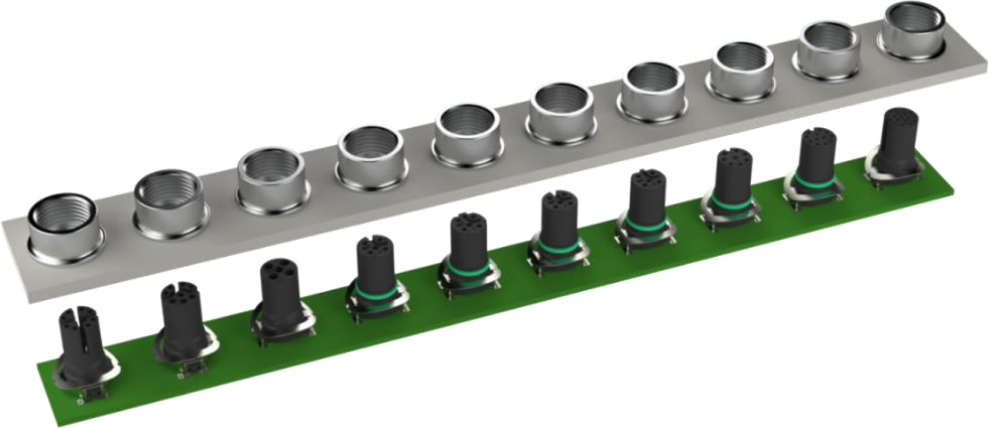

M12 socket tape-on-reel - change packaging unit

	Old	New
Design	 <p>100 pcs.</p>	 <p>120 pcs.</p> <p>Note: Change applies only to the socket variants and tape-on-reel packaging</p>

Coplanarity

	New
Check	 <ul style="list-style-type: none"><li data-bbox="647 886 1531 968">✓ Coplanarity for M8 / M12 SMD series: <math><0.1\text{mm}</math><li data-bbox="647 1001 1666 1082">✓ 100% check – each connector is tested for coplanarity<li data-bbox="647 1115 2372 1196">✓ Automatic optical inspection during the production → check by the most precise camera systems

Compatibility Housing variants

	Old	New
Compatibility		
		
	Identical All contact carriers are compatible to the available housing variants - also with Push-Pull	

Alle Inhalte in dieser Präsentation, insbesondere Texte, Fotografien und Grafiken sind urheberrechtlich geschützt und alle in dieser Präsentation enthaltenen Strategien, Modelle, Konzepte und Schlussfolgerungen sind ebenfalls geistiges Eigentum von Phoenix Contact, sofern dies nicht anders, zum Beispiel durch Quellenangaben, gekennzeichnet ist. Alle in dieser Präsentation enthaltenen Informationen sind vertraulich zu behandeln. Es ist ohne vorherige schriftliche Genehmigung durch Phoenix Contact untersagt, diese Präsentation ganz oder auszugsweise zu kopieren, zu verändern, zu vervielfältigen, zu veröffentlichen, zu verbreiten oder in einer sonstigen Weise Dritten zugänglich zu machen.

Phoenix Contact Art.Nr.;Phoenix Contact Art.Bez.;Bemerkung

1066970	;SACC-CIP-M12FS-4P SMD T PD;HW/FW alt: 2	HW/FW neu: 3
1075425	;SACC-CI-M8FSD-4P SMD R32 FES;	
1114556	;SACC-CIP-M8MSB-5P SMD SH T;HW/FW alt: 0	HW/FW neu: 1
1157452	;SACC-CIP-M12FS-5P SMD R32 PD;HW/FW alt: 1	HW/FW neu: 2
1163177	;SACC-CIP-M8FSD-4P SMD R32;HW/FW alt: 1	HW/FW neu: 2
1238923	;SACC-CI-M12MS-8P SMD TX;HW/FW alt: 0	HW/FW neu: 1
1238947	;SACC-CI-M12FS-17P SMD R32X;HW/FW alt: 0	HW/FW neu: 1
1238949	;SACC-CI-M12MS-8P SMD R32X;HW/FW alt: 0	HW/FW neu: 1
1238959	;SACC-CIP-M12MS-8P SMD SH R32X;HW/FW alt: 0	HW/FW neu: 1
1238960	;SACC-CIP-M12MS-12P SMD SH R32X;HW/FW alt: 0	HW/FW neu: 1
1238961	;SACC-CIP-M12MS-17P SMD SH R32X;HW/FW alt: 0	HW/FW neu: 1
1238962	;SACC-CIP-M12MST-4P SMD SH R32X;HW/FW alt: 0	HW/FW neu: 1
1238976	;SACC-CI-M8FSB-5P SMD TX;HW/FW alt: 0	HW/FW neu: 1
1308041	;SACC-CIP-M12FS-4P SMD TX;HW/FW alt: 0	HW/FW neu: 1
1308044	;SACC-CIP-M12FSD-4P SMD TX;HW/FW alt: 0	HW/FW neu: 1
1308045	;SACC-CIP-M12FS-5P SMD TX;HW/FW alt: 0	HW/FW neu: 1
1308046	;SACC-CIP-M12FSB-5P SMD TX;HW/FW alt: 0	HW/FW neu: 1
1308050	;SACC-CIP-M12MS-5P SMD TX;HW/FW alt: 0	HW/FW neu: 1
1308055	;SACC-CIP-M12MSB-5P SMD TX;HW/FW alt: 0	HW/FW neu: 1
1308163	;SACC-CIP-M12MS-5P SMD SH TX;HW/FW alt: 0	HW/FW neu: 1
1308168	;SACC-CI-M12MS-5P SMD R32X;HW/FW alt: 0	HW/FW neu: 1
1308207	;SACC-CIP-M12MS-5P SMD R32X;HW/FW alt: 0	HW/FW neu: 1
1308208	;SACC-CIP-M12MSB-5P SMD R32X;HW/FW alt: 0	HW/FW neu: 1
1308210	;SACC-CIP-M12FSD-4P SMD SH R32X;HW/FW alt: 0	HW/FW neu: 1
1308214	;SACC-CIP-M12FS-8P SMD SH R32X;HW/FW alt: 0	HW/FW neu: 1
1308261	;SACC-CIP-M8FS-3P SMD SH TX;HW/FW alt: 0	HW/FW neu: 1
1308262	;SACC-CIP-M8FS-4P SMD SH TX;HW/FW alt: 0	HW/FW neu: 1
1308267	;SACC-CI-M8MS-3P SMD R32X;HW/FW alt: 0	HW/FW neu: 1
1308279	;SACC-CIP-M8FS-4P SMD SH R32X;HW/FW alt: 0	HW/FW neu: 1
1308281	;SACC-CIP-M8MS-3P SMD SH R32X;HW/FW alt: 0	HW/FW neu: 1
1308297	;SACC-CIP-M12MSB-5P SMD SH R32X;HW/FW alt: 0	HW/FW neu: 1
1311885	;SACC-CIP-M8FS-3P SMD SH R32PD;HW/FW alt: 0	HW/FW neu: 1
1411916	;SACC-CI-M12FS-12P SMD T;HW/FW alt: 1	HW/FW neu: 2
1411917	;SACC-CI-M12FS-17P SMD T;HW/FW alt: 0	HW/FW neu: 1
1411918	;SACC-CI-M12FST-4P SMD T;HW/FW alt: 1	HW/FW neu: 2
1411928	;SACC-CI-M12MS-8P SMD T;HW/FW alt: 4	HW/FW neu: 5
1411929	;SACC-CI-M12MS-12P SMD T;HW/FW alt: 2	HW/FW neu: 3
1411930	;SACC-CI-M12MS-17P SMD T;HW/FW alt: 2	HW/FW neu: 3
1411931	;SACC-CI-M12MST-4P SMD T;HW/FW alt: 3	HW/FW neu: 4
1411940	;SACC-CIP-M12FS-12P SMD T;HW/FW alt: 1	HW/FW neu: 2
1411945	;SACC-CIP-M12MS-8P SMD T;HW/FW alt: 4	HW/FW neu: 5
1411946	;SACC-CIP-M12MS-12P SMD T;HW/FW alt: 2	HW/FW neu: 3
1411947	;SACC-CIP-M12MS-17P SMD T;HW/FW alt: 2	HW/FW neu: 3
1411948	;SACC-CIP-M12MST-4P SMD T;HW/FW alt: 3	HW/FW neu: 4
1411954	;SACC-CIP-M12FS-12P SMD SH T;HW/FW alt: 1	HW/FW neu: 2
1411959	;SACC-CIP-M12MS-8P SMD SH T;HW/FW alt: 4	HW/FW neu: 5
1411960	;SACC-CIP-M12MS-12P SMD SH T;HW/FW alt: 2	HW/FW neu: 3

1411961	;SACC-CIP-M12MS-17P SMD SH T;HW/FW alt: 2	HW/FW neu: 3
1411962	;SACC-CIP-M12MST-4P SMD SH T;HW/FW alt: 3	HW/FW neu: 4
1411966	;SACC-CI-M12FS-17P SMD SH T;HW/FW alt: 0	HW/FW neu: 1
1411967	;SACC-CI-M12FST-4P SMD SH T;HW/FW alt: 1	HW/FW neu: 2
1411979	;SACC-CI-M12FS-12P SMD R32;HW/FW alt: 1	HW/FW neu: 2
1411980	;SACC-CI-M12FS-17P SMD R32;HW/FW alt: 0	HW/FW neu: 1
1411981	;SACC-CI-M12FST-4P SMD R32;HW/FW alt: 1	HW/FW neu: 2
1411986	;SACC-CI-M12MS-8P SMD R32;HW/FW alt: 4	HW/FW neu: 5
1411987	;SACC-CI-M12MS-12P SMD R32;HW/FW alt: 2	HW/FW neu: 3
1411988	;SACC-CI-M12MS-17P SMD R32;HW/FW alt: 2	HW/FW neu: 3
1411989	;SACC-CI-M12MST-4P SMD R32;HW/FW alt: 3	HW/FW neu: 4
1411995	;SACC-CIP-M12FS-12P SMD R32;HW/FW alt: 1	HW/FW neu: 2
1412000	;SACC-CIP-M12MS-8P SMD R32;HW/FW alt: 4	HW/FW neu: 5
1412001	;SACC-CIP-M12MS-12P SMD R32;HW/FW alt: 2	HW/FW neu: 3
1412002	;SACC-CIP-M12MS-17P SMD R32;HW/FW alt: 2	HW/FW neu: 3
1412003	;SACC-CIP-M12MST-4P SMD R32;HW/FW alt: 3	HW/FW neu: 4
1412009	;SACC-CIP-M12FS-12P SMD SH R32;HW/FW alt: 1	HW/FW neu: 2
1412014	;SACC-CIP-M12MS-8P SMD SH R32;HW/FW alt: 4	HW/FW neu: 5
1412015	;SACC-CIP-M12MS-12P SMD SH R32;HW/FW alt: 2	HW/FW neu: 3
1412016	;SACC-CIP-M12MS-17P SMD SH R32;HW/FW alt: 2	HW/FW neu: 3
1412017	;SACC-CIP-M12MST-4P SMD SH R32;HW/FW alt: 3	HW/FW neu: 4
1412018	;SACC-CI-M12FS-17P SMD SH R32;HW/FW alt: 0	HW/FW neu: 1
1412019	;SACC-CI-M12FST-4P SMD SH R32;HW/FW alt: 1	HW/FW neu: 2
1069566	;SACC-CI-M12FSY-8P SMD SH R32;HW/FW alt: 1	HW/FW neu: 2
1081252	;SACC-CI-M12FSX-8P SMD SH R32PD;HW/FW alt: 1	HW/FW neu: 2
1411964	;SACC-CI-M12FSX-8P SMD SH T;HW/FW alt: 1	HW/FW neu: 2
1411965	;SACC-CI-M12FSY-8P SMD SH T;HW/FW alt: 1	HW/FW neu: 2

Kunde;Name 1;Name 2;Name 3;Name 4;Straße;PLZ;Stadt;Phoenix Contact Art.Nr.;Phoenix Contact Art.Bez.;Ihre |
49786 ;TTI

Materialnr.;Menge 2024 ST;Menge 2025 ST;Menge 2026 ST;AE 2026 ST
Inc.;;;Ganghoferstraße 34;82216;Maisach;1411964 ;SACC-CI-M12FSX-8P SMD SH T;PHX141196

4;60 ST;;;

Item no.;Type;old;new;Substitute item;Replacement product designation;eCl@ss 13.0;

1066970;SACC-CIP-M12FS-4P SMD T PD;2;3;;;27440223;
1075425;SACC-CI-M8FSD-4P SMD R32 FES;2;3;;;;
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1157452;SACC-CIP-M12FS-5P SMD R32 PD;1;2;;;27440223;
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1308261;SACC-CIP-M8FS-3P SMD SH TX;0;1;;;27440223;
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