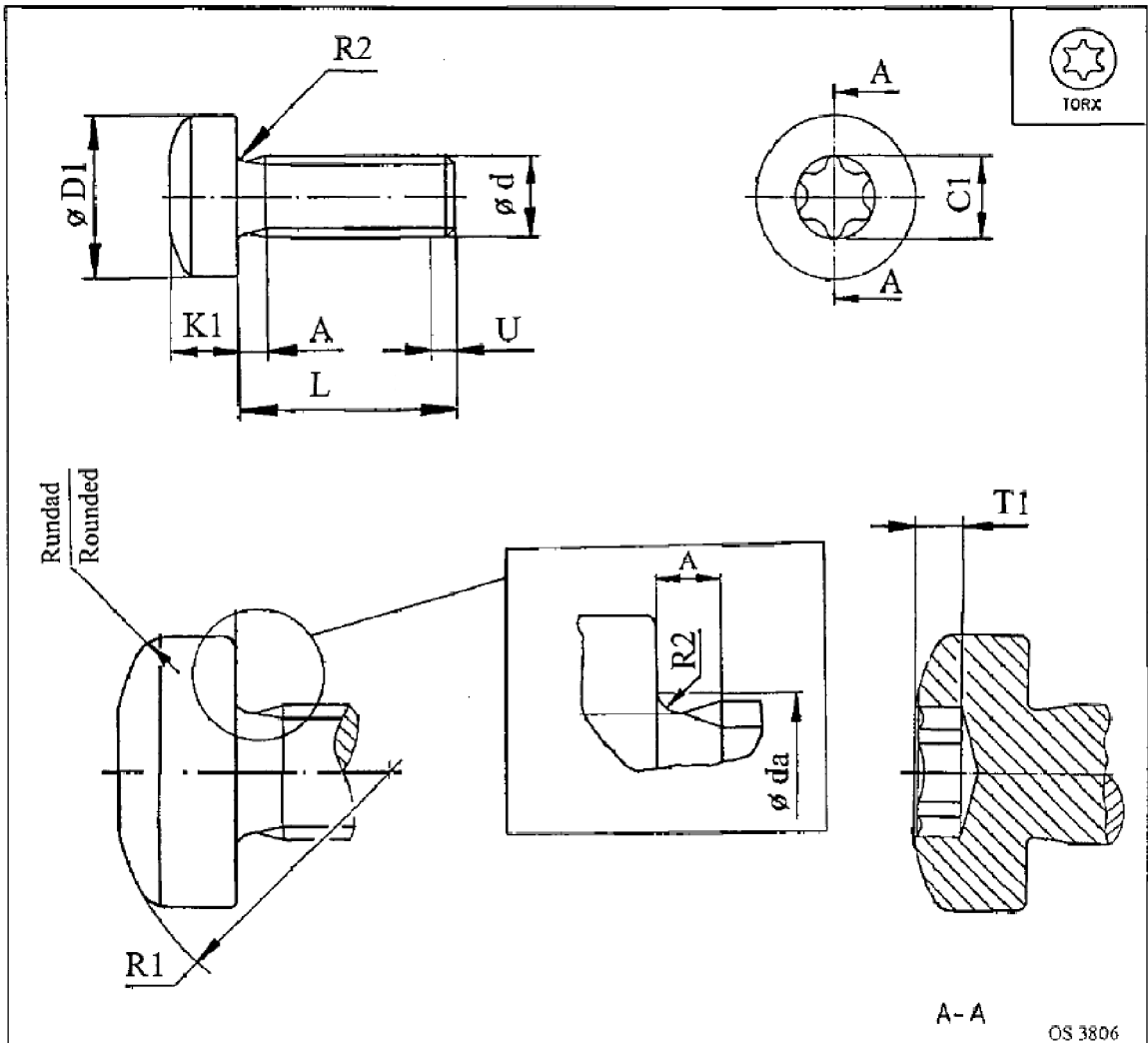


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**Screw**



**1**

**General**

**1.1**

**Description**

Hexalobular socket pan head screw, ISO 14583 made of stainless steel with lubricant finish. In grade for manual and automatic assembly. For M3 head diameter according to DIN 7985.

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2 Design

- Thread: ISO metric screw threads. Coarse pitch.  
According to ISO 261 and ISO 965.
- Driving feature: ISO 10664 (Torx).
- Material: Stainless steel type A4 according to ISO 3506 (M3-M8).  
Stainless steel type A2 according to ISO 3506 (M2)
- Surface treatment: Waxing, lubricant finish MTV 110 0002/1.
- The lubricant treatment is done to reduce friction and to prevent the threads to jam when mounting.

2.1 Dimensions

Dimensions in mm.

2.2 Tolerances

According to ISO 965-1.

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2.3      Technical data

Dimension				Thread size (d)						
				M 2	M 2.5	M 3 *)	M 4	M 5	M 6	M8
P	Pitch of thread			0.4	0.45	0.5	0.7	0.8	1.0	1.25
da	max			2.6	3.1	3.6	4.7	5.7	6.8	9.2
D1	max			4.0	5.0	6.0	8.0	9.5	12.00	16.00
	min			3.7	4.7	5.7	7.64	9.14	11.57	15.57
A	max			0.8	0.9	1	1.4	1.6	2	2.5
K1	max			1.60	2.10	2.40	3.10	3.70	4.6	6.0
				1.46	1.96	2.26	2.92	3.52	4.3	5.7
R1	max			3.2	4	5	6.5	8	10	13
R2	min			0.1	0.1	0.1	0.2	0.2	0.25	0.4
C1	ref			1.75	2.4	2.80	3.95	4.50	5.60	7.95
T1	max	2)		0.77	1.04	1.27	1.66	1.91	2.42	3.18
	min	2)		0.63	0.91	1.01	1.27	1.52	2.02	2.79
Driving feature Torx no				T 6	T8	T 10	T 20	T25	T 30	T45
Property class				A2 70	A4 70	A4 80	A4 80	A4 80	A4 80	A4 80

\*) Existing product numbers for M3 screws shall have D1 dimension set to max 6.0 min 5.7 according to DIN 7985. New product numbers are according to ISO 14583.

Burrs: The products shall have full surfaces and edges and all burrs removed that can cause injury to person or product.

Cracks: Surface discontinuities on screw head cracks of any dept, any length, or in any location are not permitted.

3      Product quality

The product must meet the requirements in Quality specification, 105 63-2031 Uen.

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4           **Marking**

Each component shall be marked with the manufacturer's name and/or trademark.  
If limit in space on the component the marking must be on the package.  
The marking on the component must be resistant to mechanical wearing and common fluids that may be used at normal handling, storage and operation.

5           **Packing**

The package shall be marked according to the following:

- 1. Ericsson product number.
- 2. Manufacturer's name or trademark and product designation.
- 3. Date of manufacture, preferably year and week in a digit code according to ISO 8601 (yyyyWvv) or batch code.
- 4. Number of components.

6           **References**

1003-101 Uen	STAKO classes, instruction
105 63-2031 Uen	General quality requirements on components
105 86-MTV 110 0002/1	Lubricant finish
1/0113-LZB 101 01/23 Uen	Standard guide, drawing of symbols and metric screw thread tolerances ( <a href="http://corp-stand.ericsson.se/st23/">http://corp-stand.ericsson.se/st23/</a> )
ISO 261:1998	ISO general purpose metric screw threads.
ISO 965-1:1998	Tolerances – Part 1:Principles and basic data.
ISO 3269:2000	Fasteners – Acceptance inspection
ISO 3506-1:1997	Corrosion-resistant stainless steel fasteners-Specifications.
ISO 8601	Marking specification
ISO 10664:1999	Hexalobular internal driving feature for bolts and screws
ISO 14583:2001	Hexalobular socket pan head screws

7           **Note**

In case of deviation on the purchased product and this document, Ericsson responsible must be informed before the deviations take place.

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8 Purchase Information

8.1 Approved supplier/manufacturer

Approved suppliers are registered in Ericsson’s list of suppliers, ELIZA.

9 Internal information

9.1 Inspection direction

Inspection according to ISO 3269.

10 Product list

NOTE! Grey marked product numbers are not recommended because of long lead times and availability.

The dimension D1 is max 6.0, min 5.3 for M3 according to DIN 7985.

Product number	Thread d	L	Information
SBA 116 020/0030	M 2	3	
SBA 116 020/0040	M 2	4	
SBA 116 020/0050	M 2	5	
SBA 116 020/0060	M 2	6	
SBA 116 020/0080	M 2	8	
SBA 116 020/0100	M 2	10	
SBA 116 020/0120	M 2	12	
SBA 116 020/0140	M 2	14	
SBA 116 020/0160	M 2	16	
SBA 116 020/0180	M 2	18	
SBA 116 025/0040	M 2.5	4	
SBA 116 025/0050	M 2.5	5	
SBA 116 025/0060	M 2.5	6	
SBA 116 025/0080	M 2.5	8	
SBA 116 025/0100	M 2.5	10	
SBA 116 025/0120	M 2.5	12	
SBA 116 025/0140	M 2.5	14	
SBA 116 025/0160	M 2.5	16	
SBA 116 025/0200	M 2.5	20	
SBA 116 025/0250	M 2.5	25	
SBA 116 030/0040	M 3	4	D1 max 5.6
SBA 116 030/0050	M 3	5	OBS! D1 max 6.0 min 5.7
SBA 116 030/0060	M 3	6	OBS! D1 max 6.0 min 5.7
SBA 116 030/0080	M 3	8	OBS! D1 max 6.0 min 5.7
SBA 116 030/0090	M 3	9	OBS! D1 max 6.0 min 5.7
SBA 116 030/0100	M 3	10	OBS! D1 max 6.0 min 5.7
SBA 116 030/0120	M 3	12	OBS! D1 max 6.0 min 5.7
SBA 116 030/0140	M 3	14	OBS! D1 max 6.0 min 5.7

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Product number	Thread d	L	Information
SBA 116 030/0160	M 3	16	OBS! D1 max 6.0 min 5.7
SBA 116 030/0180	M 3	18	OBS! D1 max 6.0 min 5.7
SBA 116 030/0200	M 3	20	OBS! D1 max 6.0 min 5.7
SBA 116 030/0220	M 3	22	OBS! D1 max 6.0 min 5.7
SBA 116 030/0250	M 3	25	OBS! D1 max 6.0 min 5.7
SBA 116 030/0300	M 3	30	OBS! D1 max 6.0 min 5.7
SBA 116 030/0350	M 3	35	OBS! D1 max 6.0 min 5.7
SBA 116 030/0400	M 3	40	OBS! D1 max 6.0 min 5.7
SBA 116 030/0450	M 3	45	OBS! D1 max 6.0 min 5.7
SBA 116 030/0500	M 3	50	OBS! D1 max 6.0 min 5.7
SBA 116 040/0060	M 4	6	
SBA 116 040/0080	M 4	8	
SBA 116 040/0100	M 4	10	
SBA 116 040/0120	M 4	12	
SBA 116 040/0140	M 4	14	
SBA 116 040/0160	M 4	16	
SBA 116 040/0180	M 4	18	
SBA 116 040/0200	M 4	20	
SBA 116 040/0220	M 4	22	
SBA 116 040/0250	M 4	25	
SBA 116 040/0300	M 4	30	
SBA 116 040/0350	M 4	35	
SBA 116 040/0400	M 4	40	
SBA 116 040/0450	M 4	45	
SBA 116 040/0500	M 4	50	
SBA 116 050/0080	M 5	8	
SBA 116 050/0100	M 5	10	
SBA 116 050/0120	M 5	12	
SBA 116 050/0140	M 5	14	
SBA 116 050/0160	M 5	16	
SBA 116 050/0180	M 5	18	
SBA 116 050/0200	M 5	20	
SBA 116 050/0220	M 5	22	
SBA 116 050/0250	M 5	25	
SBA 116 050/0300	M 5	30	
SBA 116 050/0350	M 5	35	
SBA 116 050/0400	M 5	40	
SBA 116 050/0450	M 5	45	
SBA 116 050/0500	M 5	50	
SBA 116 060/0100	M 6	10	
SBA 116 060/0120	M 6	12	
SBA 116 060/0140	M 6	14	
SBA 116 060/0160	M 6	16	
SBA 116 060/0180	M 6	18	
SBA 116 060/0200	M 6	20	
SBA 116 060/0220	M 6	22	
SBA 116 060/0250	M 6	25	
SBA 116 060/0300	M 6	30	

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Product number	Thread d	L	Information
SBA 116 060/0350	M 6	35	
SBA 116 060/0400	M 6	40	
SBA 116 060/0450	M 6	45	
SBA 116 060/0500	M 6	50	
SBA 116 060/0550	M 6	55	
SBA 116 060/0600	M 6	60	
SBA 116 060/0700	M 6	70	
SBA 116 060/0800	M 6	80	
SBA 116 080/0100	M 8	10	
SBA 116 080/0120	M 8	12	
SBA 116 080/0160	M 8	16	
SBA 116 080/0200	M 8	20	
SBA 116 080/0250	M 8	25	
SBA 116 080/0300	M 8	30	
SBA 116 080/0350	M 8	35	
SBA 116 080/0400	M 8	40	
SBA 116 080/0500	M 8	50	
SBA 116 080/0600	M 8	60	

11 Document revision information

Revision	Description
B	Paragraph 2.3 Cracks ISO 6157-3 changed to include all screw dimensions. Paragraph 8: Purchase information added. Special note about selecting manufacturer for Defense product, airborne equipment. ISO standard references updated: Reference to ISO 14583, hexalobular socket pan head screw for all dimensions. Existing product numbers in product list for M3 dimensions refers to DIN 7985 for the D1 dimension. See the information column in the Product list.
C	Paragraph 8.1 Purchase information four defense products, and airborne equipment is deleted.
D	Tolerance js15 deleted from figure 1. Length tolerance should be according to ISO 14583.
E	Paragraph 2.3 Technical data: Information about difference on dimension D1 for existing M3 product numbers compared to technical data in table 2.3 clarified.
F	SBA 116 080/0500 added to product list.
G	Added SBA 116 030/0040 to product list.
H	Paragraph 2. (M3-M6). Changed to (M3-M8).
J	Clearer text regarding M3 head diameter according to DIN 7985