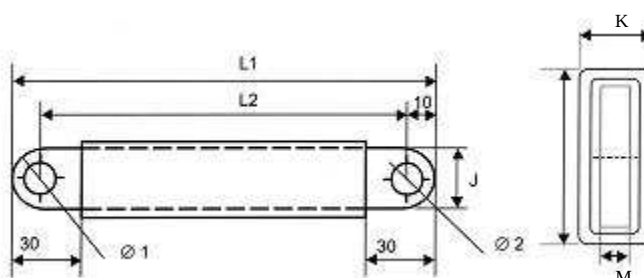


IBS 25 INSULATED BRAIDED SHUNT

❑ IBS 25 : Insulated Braided shunt 25 mm²

- These insulated shunts are the best alternative to cables. No cutting, no stripping, no crimping.
- These shunts are very flexible, pre-punched, ready to use, quick and easy to install.

EN 60439-1



Part No	IBS 25	S (mm ²)	L1 (mm)	L2 (mm)	J (mm)	K (mm)	M (mm)	Ø1 (mm)	Ø2 (mm)		
558240	IBS 25-230-8-10	25	252	230	20	6	1,9	8,5	10,5	10	0,095 kg
558241	IBS 25-330-8-10	25	352	330	20	6	1,9	8,5	10,5	10	0,14 kg
558242	IBS 25-430-8-10	25	452	430	20	6	1,9	8,5	10,5	10	0,17 kg
558243	IBS 25-530-8-10	25	552	530	20	6	1,9	8,5	10,5	10	0,21 kg
558244	IBS 25-630-8-10	25	652	630	20	6	1,9	8,5	10,5	10	0,25 kg

❑ Technical data

- Intensity = 100 up to 442 A (with 3 "IBS" in parallel)
- Excellent electrical contact
- Good tensile strength

❑ Insulation

- High resistance: vinyl compound
- Max. working temperature: 105°C
- Self-extinguishable: UL 94 V0
- Dielectric strength: 20 kV/mm
- Max working voltage: 1000 V AC - 1500 V DC

❑ Braid

- Tinned electrolytic copper Cu-ETP for better corrosion protection
- Copper purity of minimum 99,9%
- Flat tinned copper braids
- Wire diameter: 0.15 mm for maximum flexibility
- Very good resistance to vibration
- Maximum resistivity of 0,017241 $\Omega\text{mm}^2 / \text{m}$ below 20°C
- Standard wire diameter: 0,15 mm

❑ Dielectric test

- 3500 V AC, 1 minute according to the EN 60439-1 standard (rated insulation voltage Ui 1000 V AC)

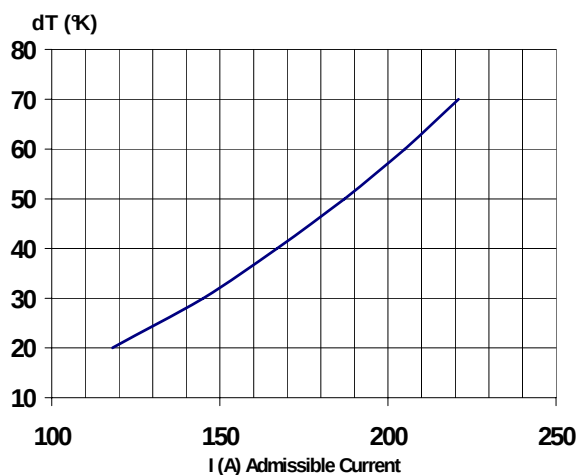
□ **Intensity temperature rise**

NOTE: The tables show the temperature rise (ΔT), depending on the current value (I).

WORKING TEMPERATURE = AMBIENT TEMPERATURE + ΔT
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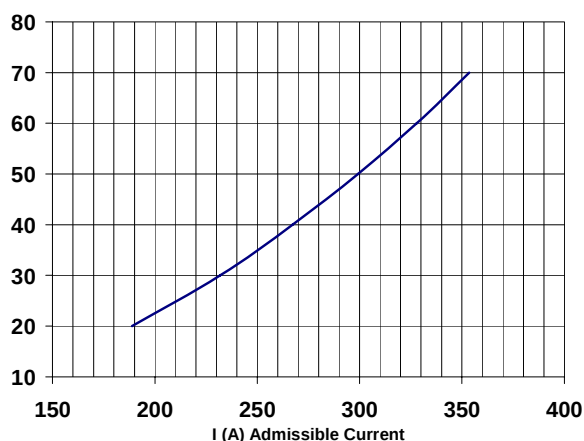
- For 1 IBS per phase:

I (A)	ΔT (°K)
118	20
145	30
167	40
187	50
205	60
221	70



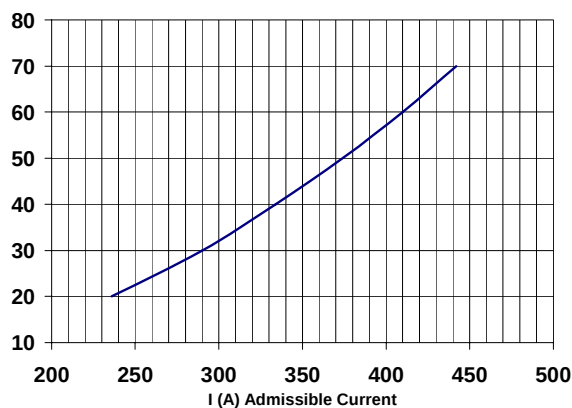
- For 2 IBS per phase:

I (A)	ΔT (°K)
188	20
232	30
267	40
299	50
328	60
354	70



- For 3 IBS per phase:

I (A)	ΔT (°K)
236	20
290	30
334	40
374	50
410	60
442	70



□ **Using 2 or 3 “IBS” in parallel**

NOTE:

Using 2 or 3 IBS in parallel multiply the nominal current (I) of 1 IBS by the factor in the table.

Factor		
		
1	1.6	2

Ex:

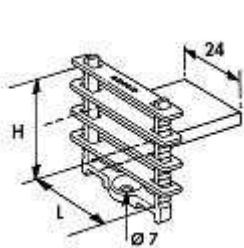
For IBS 25: admissible current for 2 IBS ($\Delta T = 50\text{ K}$) = $187 \times 1.6 = 299\text{ A}$

For IBS 25: admissible current for 3 IBS ($\Delta T = 50\text{ K}$) = $187 \times 2 = 374\text{ A}$

ADDITIONAL INFORMATION

□ **Space between 2 or 3 IBS in parallel**

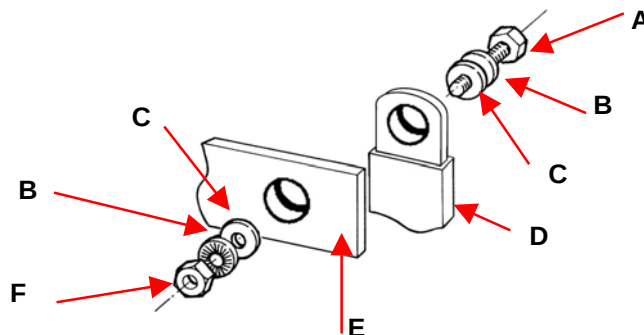
A minimum air gap is required: use FS 24 spacer clamp



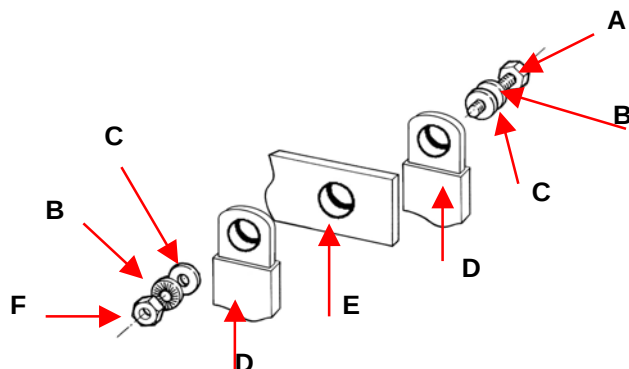
Spacer clamp				
Designation	Part No	H (mm)	L (mm)	W (kg)
FS24	553550	53	30	0.015

□ **Important: assembly instructions**

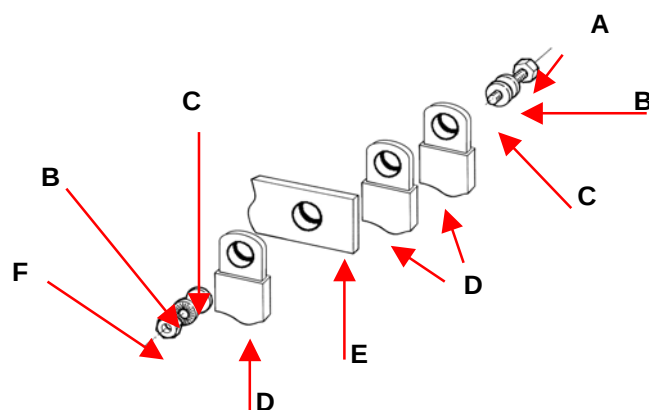
- For 1 IBS:



- For 2 IBS:



- For 3 IBS:



A: Screw bolt
 B: "contact" washer
 C: Flat washer
 D: Braid
 E: Copper bar
 F: Nut

		References	External Flat and "Contact" Washers diameters (mm)	Clamping Torque (N.m)
IBS 25	Ø1 – 8.5	HM 8	18	30
	Ø2 – 10.5	HM 10	20	60

With a class 8.8 zinc coated bolt, using "contact" washers tightened with torque wrench, without lubrication.

□ Certificates:

- CE conformity
- ROHS 2002/95/EC Compliance