

Operating conditions:

• Ambient temperature:

• Relative humidity: ≤ 70%

Dust in atmosphere ≥ 65µm

Other conditions: consult us.

Use:

electric mains. Other use, consult us.

Dynamic braking : -30°C to +70°C

Brake applied (parking): -40°C to +70°C

. The brake should be applied only in case of

US2-1, US2-5 for low energy braking ≤ 1 MJ

emergency stop, overspeed or shutdown of

Disc brakes

Emergency brake

Spring application

Hydraulic release

20 and 30mm.

Protection C5M-M

Fail to safe

Caliper SH1

Linings with wear indicators

Holding tool for maintenance operation

Manual wear centering and compensation

Asociation with discs thickness: 12,7 (1/2"),

Technical data and dimensions

Options:

- Opening proving switch
- · Lining wear proving switch
- All non-standard disc thickness > 12,7mm (1/2")

5tromag

SIME Brakes

- · Mechanical release tool for caliper opening
- Lining temperature sensor
- SH1L : caliper requiring no manual wear compensation:
 - braking force before lining wear = +10%
 - braking force after lining wear = -10%

3 holes Ø17 for tie rods M16 class 10-9 (Customer supply) os ws 00 G 23000000 erona е 65 mini 70 **Electrical data:** Inductive switches of opening and wear (options): 3 wires PNP NO



10 to 24 VDC 200mA with male connector M12 / 5 positions according to standard IEC61076-2-101 / code A

- C = Spacers according to disc thickness **G** = Linings : Thickness of new lining 8 mm
- Thickness to wear 6 mm
 - Each 1mm of wear on each side: manual
- centering and compensation **OS** = Opening switch (option)
- WS = Lining wear switch (option)
- ØD = Disc diameter = 300 mm minimum
- e = Disc thickness
- Dimensions in mm
- Weight = 31 kg

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

06/01/15 US2-1 Leaflet No. M10097-01 No. FDS00015-01 Installation and maintenance Safety data sheets Spare parts No. S10097-01 US2-5 No. FDS00020-01

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Disc brakes

Technical data and dimensions

Caliper SH1

Torque and effort values are subject to a variation of $\pm 10\%$ - Closing time at nominal torque $\leq 0.3s$

Designation	Caliper		SH1-5		SH1-4		SH1-3		SH1-2		SH1-1	
	Lining		US2-1	US2-5	US2-1	US2-5	US2-1	US2-5	US2-1	US2-5	US2-1	US2-5
Braking force BF for air gap disc/lining of 2x1mm	Dynamic	Ν	11 000	9 600	8 000	7 000	6 000	5 300	4 000	3 500	2 000	1 800
	Static	Ν	9 700	8 700	7 100	6 300	5 300	4 800	3 500	3 200	1 800	1 600
Linear speed of the disc		m/s	≤ 10	≤ 30	≤ 10	≤ 30	≤ 10	≤ 30	≤ 10	≤ 30	≤ 10	≤ 30
Dynamic braking torque BT (m.N) for 1 caliper and disc \emptyset D (mm) / 300 \le D \le 1000 mm		N.m	BT = BF (D/2000-0,037)									
Regulation pressure Minimum Maximum		bar bar	90 110		70 90		50 70		50 70		50 70	
Setting pressure limit valve of hydraulic unit		bar	130		110		90		90		90	
Total volume of oil displaced for air gap disc/lining of:	2 x 1mm (nominal opening)	cm ³	5 cm ³									
	2 x 2mm (wear+opening)	cm ³	9 cm ³									
	2 x 7mm SH1L (wear+open.)	cm ³	30 cm ³									

 \blacktriangle For higher speed, consult us.

★ US2-1: disc temperature during one braking ≤ 150°C US2-5: disc temperature during one braking ≤ 350°C

US2-5 No. FDS00020-01

T10097-01-D

Disc and support :

Spare parts



No. S10097-01