

Disc brakes

Technical data and dimensions

Caliper SHC5

Emergency brake
 Fail to safe
 Spring application
 Hydraulic release
 Integral hydraulic power unit
 Self contained electrical system
 Opening proving switches
 Lining wear detector

Operating conditions:

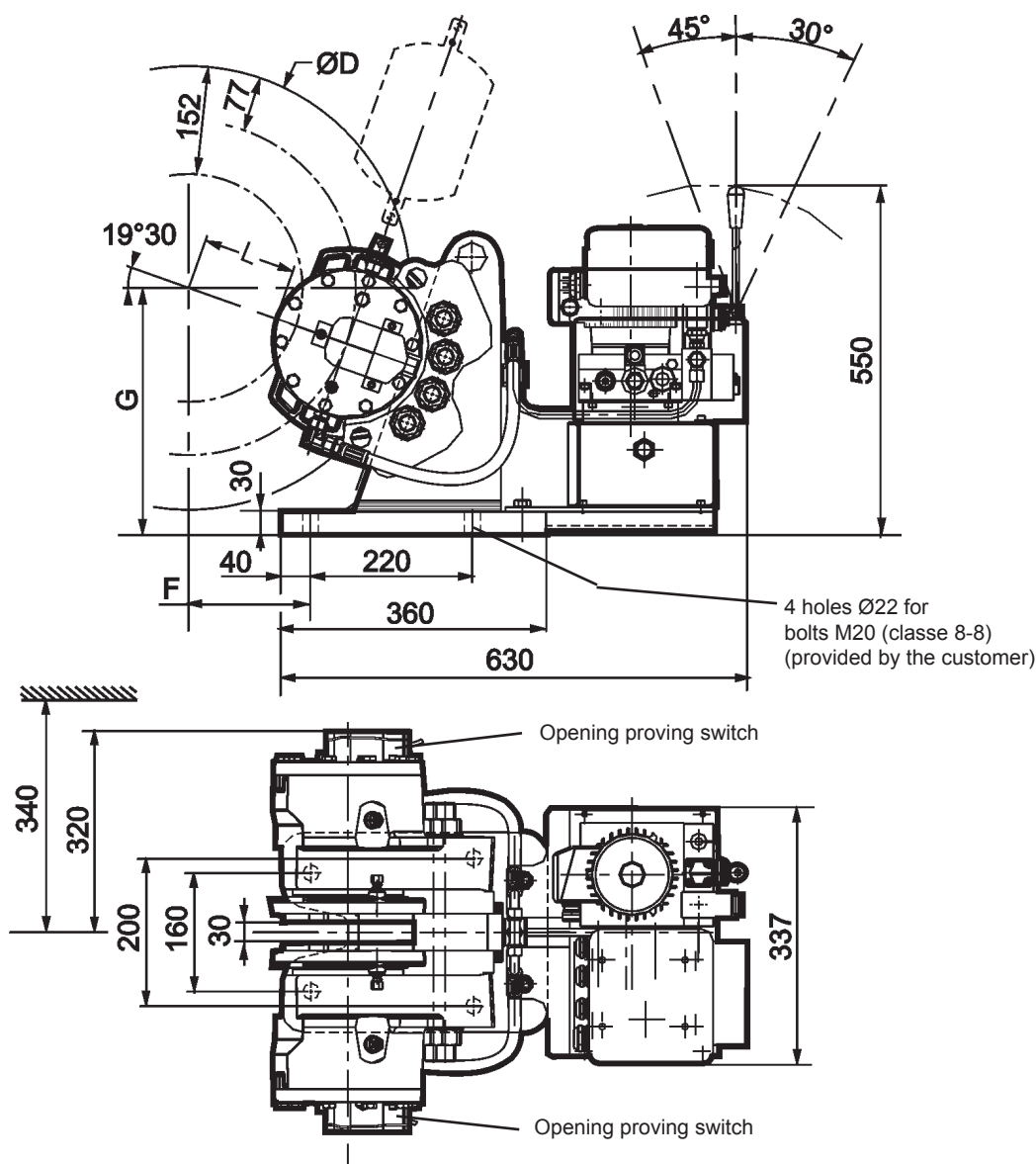
- Ambient temperature: -10°C to $+50^{\circ}\text{C}$
 - Relative humidity: $\leq 70\%$
 - Dust in atmosphere $\geq 65\mu$
- Other conditions: consult Stromag France.

Use:

- The brake should be applied only in case of emergency stop, overspeed or shutdown of electric mains.
- Other use, consult us.

Options:

- Automatic lining wear compensation (WACS)
- Lining wear control switch
- Progressive braking system
- Marine protection



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

Installation and maintenance Leaflet No. M08412-02
 Spare parts No. S09412-02
 Connection of a hydraulic power unit No. G08555-01

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Disc brakes

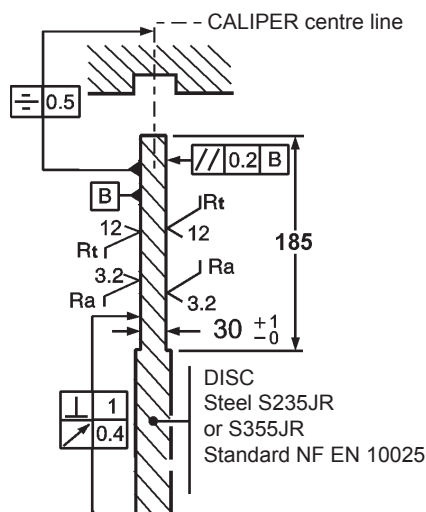
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Electrical data

- **Motor voltages :**
3 phases : 230/400 VAC 50 Hz
0.37 kW, 4 poles
for mains:
220-230-240VAC $\pm 10\%$ 50Hz
or 380-400-415VAC $\pm 10\%$ 50Hz
- **Options motor :**
440 VAC 50Hz
500 VAC 50Hz
480 VAC 60Hz
575 VAC 60Hz
- Other voltages, consult us.
- Electrical casing IP55
- **Opening switch :**
250VAC maxi., 5A maxi.,
with interrupting capacity: 50VA maxi.
220VDC maxi., 5A maxi.,
with interrupting capacity: 50W maxi.
Compatible with PLC
(Programmable Logic Controllers).
An opening switch used with other
equipment than PLC must not be reused
with a PLC.

Installation instructions



Dimensions in mm.

Disc standard thickness: 30 mm.

Other thickness, consult us

Weight: 185 kg

Torque and effort values are subject to a variation of $\pm 10\%$
 response time at nominal torque : see the leaflet "Connection of a hydraulic power unit" quoted below.

Designation	Caliper	SH5-6		SH5-5		SH5-4		SH5-3		SH5-2	
	Lining *	US2-1	WS1-3	US2-1	WS1-3	US2-1	WS1-3	US2-1	WS1-3	US2-1	WS1-3
Braking force BF for 1mm of air gap disc/lining	Static N	63 000	43 200	51 300	35 100	37 800	25 900	21 200	14 500	9 600	6 500
	Dynamic N	70 000	48 000	57 000	39 100	42 000	28 800	23 600	16 200	10 700	7 300
Linear speed of the disc	m/s	≤ 10	≤ 50	≤ 10	≤ 50	≤ 10	≤ 50	≤ 10	≤ 50	≤ 10	≤ 50
Dynamic braking torque BT (N.m) for 1 caliper and a disc ØD (mm)	995 mm	29 430	20 180	23 960	16 440	17 660	12 110	9 920	6 810	4 490	3 070
	1200 mm	36 610	25 100	29 810	20 440	21 960	15 060	12 340	8 470	5 590	3 810
	1500 mm	47 110	32 300	38 360	26 310	28 260	19 380	15 880	10 900	7 200	4 910
	2000 mm	64 610	44 300	52 610	36 080	38 760	26 580	21 780	14 950	9 870	6 730
BT for other ØD (mm) N.m		BT = BF (D/2000 - 0.077)									
Setting pressure of limit valve of hydraulic power unit		225		190		165		140		80	
F	mm	F = (0,4719 x D) - 122,5									
G	mm	G = (0,1652 x D) + 232,5									
L	mm	L = (D / 2) - 181									

*US2-1: disc temperature during one braking $\leq 150^\circ\text{C}$
 WS1-3: disc temperature during one braking $\leq 600^\circ\text{C}$

US2-5: disc temperature during
 one braking $\leq 350^\circ\text{C}$, optional, consult us.

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