

## Disc brake

## Technical data and dimensions

**Caliper SHC18B**

Emergency brake  
 Fail safe  
 Spring application  
 Hydraulic release  
 Integral hydraulic power unit  
 Opening proving switches  
 Lining wear detector

**Operating conditions:**

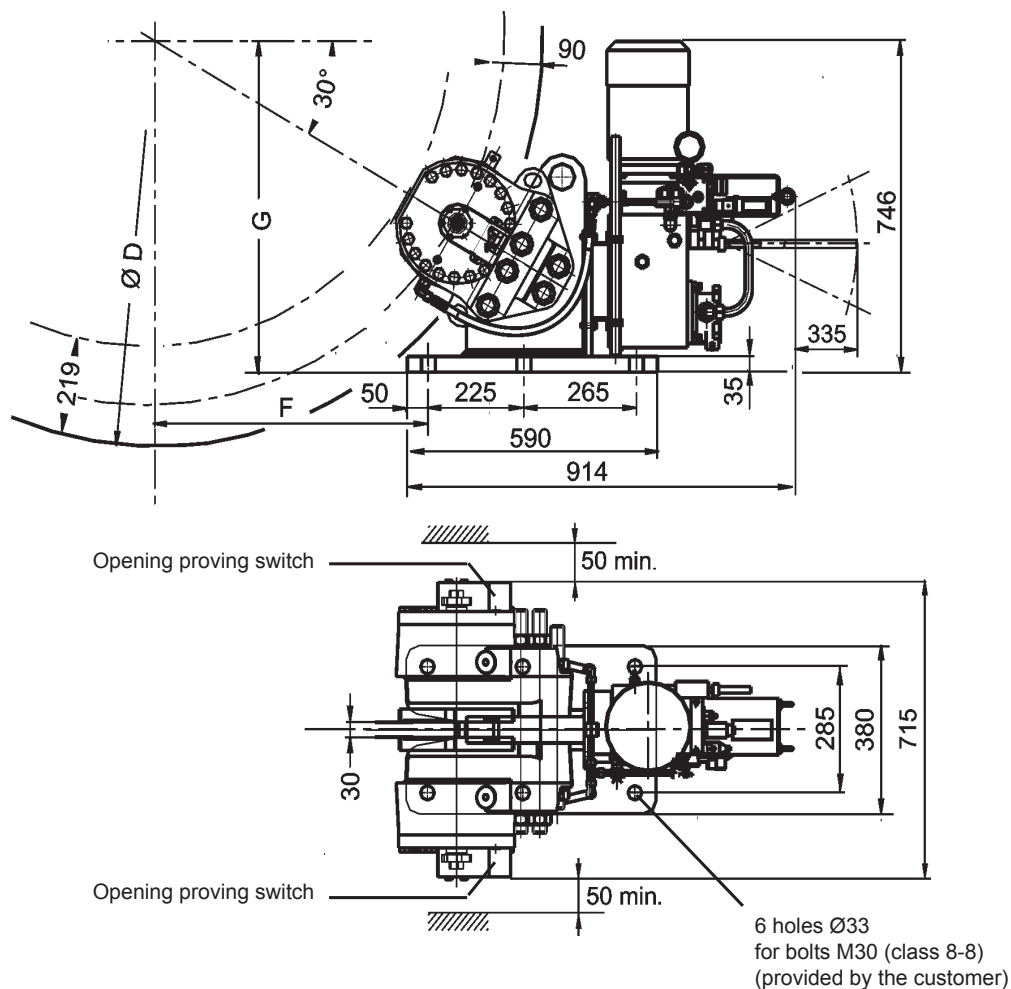
- Ambient temperature:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
  - Relative humidity:  $\leq 70\%$
  - Dust in atmosphere  $\geq 65\mu$
- Other conditions: consult us.

**Use:**

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

**Options:**

- 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  
 Spare parts SH18B  
 Spare parts CE8L

Leaflet No. M08457-02  
 No. S09457-01  
 No. S09580-01

Connection of a hydraulic power unit

No. G08555-01

15/10/10

1/2

**T03907-03-B**

## Disc brake

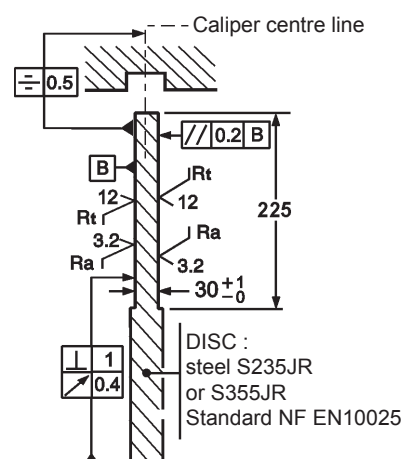
## Technical data and dimensions

## Caliper SHC18B

## Electrical data

- **Motor voltages :**  
 3 phases : 230/400VAC  $\pm 10\%$  50Hz  
 2,2kW, 4 poles
- **Options motor :**  
 690VAC  $\pm 10\%$  50Hz  
 500VAC  $\pm 10\%$  50Hz  
 230/400VAC  $\pm 10\%$  50Hz with PTC sensor  
 Other voltage, consult us.
- **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



Disc standard thickness: 30 mm.  
 Other thickness, consult us

Weight: 380 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		SHC18B	
	Lining *		US2-1	US2-4
Braking force BF for 1mm of air gap disc/lining	Static	N	160 000	117 400
	Dynamic	N	180 000	130 500
Linear speed of the disc	m/s		$\leq 10$	$\leq 50$
Dynamic braking torque BT (N.m) for 1 caliper and a disc ØD (mm)	1000 mm	N.m	73 800	53 500
	1200 mm	N.m	91 800	66 500
	1500 mm	N.m	118 800	86 100
	2000 mm	N.m	163 800	118 700
BT for other ØD (mm)	N.m		BT = BF (D/2000 - 0.09)	
F	mm		F = (0,433 x D) - 154,2	
G	mm		G = (0,250 x D) + 286,2	
Setting pressure of limit valve of hydraulic power unit	bar		225	

- \* **US2-1** : disc temperature during one braking  $\leq 150^\circ\text{C}$   
**US2-4** : 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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Installation and maintenance	Leaflet No. M08457-02	Connection of a hydraulic power unit	No. G08555-01	15/10/10	2/2
Spare parts SH18B	No. S09457-01				
Spare parts CE8L	No. S09580-01				

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