

Technical data and dimensions

Use:

- The brake should be applied only in case of emergency stop, overspeed or shutdown of electric mains.
- US2-1, US2-5 for low energy braking ≤ 1 MJ
- EF3-1 for high energy braking ≤ 15 MJ

Other use, consult us

- Lining wear control switch
- Switch for P.L.C.
- Protection class C4M standard ISO12944-2



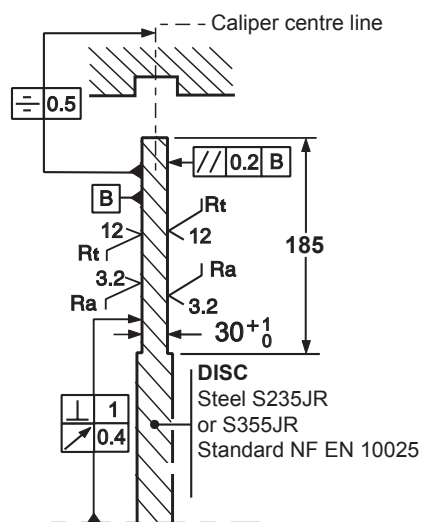
T10078-01-B

Disc brakes

Technical data and dimensions

Caliper SHC9A

Installation instructions



Dimensions in mm.

Disc standard thickness: 30 mm.

Other thickness, consult us

Electrical data

- Motor voltages:
3 phases:
230/400 V $\pm 10\%$, 50 Hz
0.37 kW
for voltage of 3 phases mains:
230 V 50 Hz
or 400 V 50 Hz
or 415 V 50 Hz
or 440 V 60 Hz
or 460 V 60 Hz
- Options voltage of 3 phases mains:
440 V $\pm 10\%$ 50Hz
500 V $\pm 10\%$ 50Hz
480 V $\pm 10\%$ 60Hz
- Other voltages, consult us.
- Electrical casing IP55
- Opening switch:
240V, 1,5A AC
220V, 0,1A DC
with cable 5 x 0,75mm² length 5m

Weight: 230 kg

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

Designation	Caliper		SHC9A-3			SHC9A-2			SHC9A-1		
	Lining *		US2-1	US2-5	EF3-1	US2-1	US2-5	EF3-1	US2-1	US2-5	EF3-1
Braking force BF for 1mm air gap	Static	N	94 500	90 000	70 500	80 100	76 200	60000	66 150	63 000	49 600
	Dynamic	N	105 000	100 000	78 200	89 000	84 700	66 500	73 500	70 000	55 000
Linear speed of the disc for BF		m/s	≤10	≤30	≤ 50 ▲	≤10	≤30	≤ 50 ▲	≤10	≤30	≤ 50 ▲
Dynamic braking torque BT (N.m) for 1 caliper and disc ØD (mm) **	995 mm	N.m	44 150	42 050	32 880	37 420	35 620	27 960	30 910	29 440	23 130
	1500 mm	N.m	70 670	67 300	52 630	59 900	57 000	44 750	49 470	47 110	37 020
	2000 mm	N.m	96 920	92 300	72 180	82 150	78 180	61 380	67 840	64 610	50 770
BT for other ØD (mm)		N.m	BT = BF (D/2000 - 0.077)								
Regulation pressure	Minimum	bar	180			150			110		
	Maximum		200			180			140		
Setting pressure of limit valve of hydraulic power unit		bar	225			210			165		
F G L		mm mm mm	F = (0,4719 x D) - 113 G = (0,1652 x D) + 236,7 L = (D / 2) - 190								

* US2-1: disc temperature during one braking $\leq 150^\circ\text{C}$ US2-5: disc temperature during one braking $\leq 350^\circ\text{C}$ EF3-1: High energy braking, disc temperature during one braking $\leq 600^\circ\text{C}$

** For disc ØD < 995 mm, consult us

▲ For higher speed, consult us.

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

Installation and maintenance
Spare partsLeaflet No. M10078-01
No. S10078-01

Lining data sheets

US2-1 No. FDS00015-01
US2-5 No. FDS00020-01
EF3-1 No. FDS00026-01

13/06/14

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