ELECTROMAGNETIC EMERGENCY BRAKES

MAIN CHARACTERISTICS	OPTIONS
• FAILSAFE BRAKE BY SPRING APPLICATION • ELECTROMAGNETIC RELEASE • MANUAL LINING WEAR COMPENSATION • OPENING PROVING SWITCH • DETECTION OF FULL LINING WEAR	• LOAD REGULATED LOWERING

2SA

Air gap switch

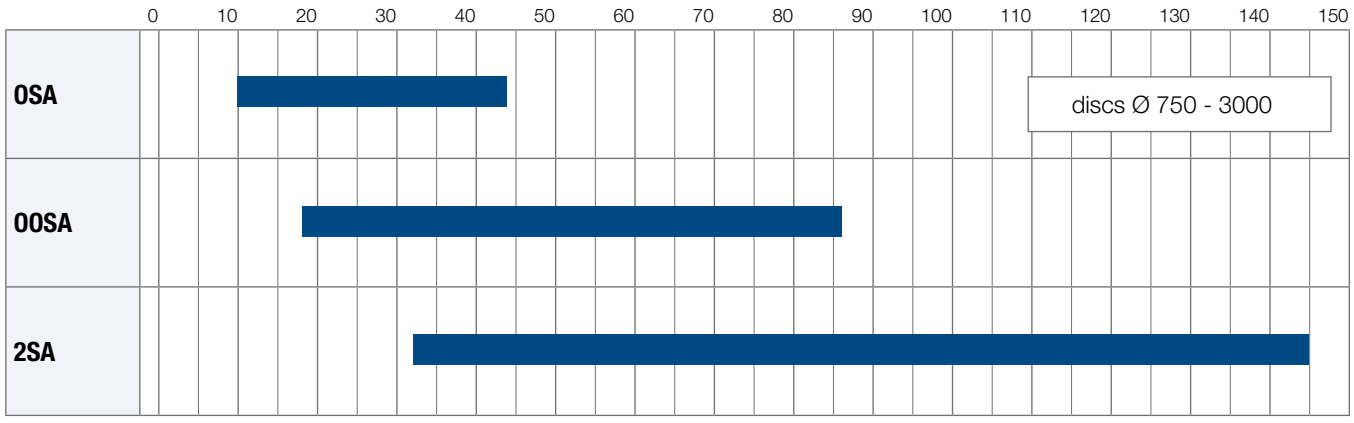
0SA

• Option :
Manual release lever
Hydraulic release
Mounting on a vertical axis disc
Flameproof / Marine protection...

00SA

• Option :
Manual release lever
Hydraulic release
Flameproof protection
Marine protection

Braking torque (kN.m)



DISC BRAKE - 2SA CALIPER

Revision number: T03781-01-D **Revision date: 22.03.2016**

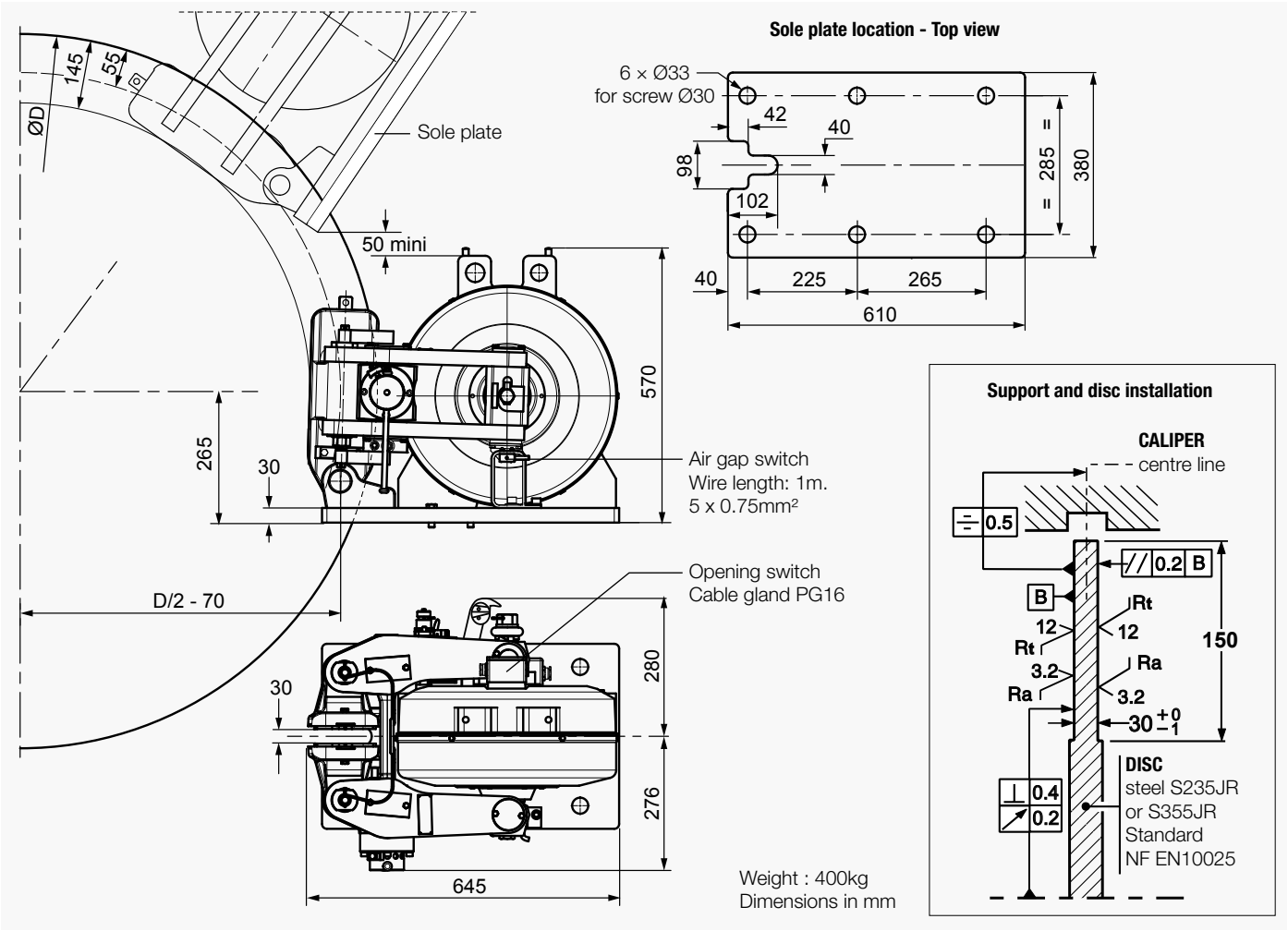
Fail safe braking
Braking by spring application
Electromagnetic release
Manual lining wear compensation
Opening proving switch
Air gap switch

Operating conditions:
- Ambiant temperature: -10°C to +60°C
- Relative humidity ≤ 70%
- Dust in atmosphere ≥ 65µ

Other conditions, consult us.

Use:
The brake should be applied only in case of emergency stop, overspeed or shutdown of electric mains.

Options:
- Detection of full lining wear
- Load regulated lowering



Torque and force values are subject to a variation of ±10%
Response time at nominal torque :
see the leaflet of the associated electrical power supply.

Designation	Caliper	2SA	
	Lining ∗	US2-1	US2-5
Braking force BF for 1mm of air gap disc/lining	Static N	90 000	84 600
	Dynamic N	100 000	94 000
Linear speed of the disc	m/s	≤ 10	≤ 10
Dynamic braking torque BT for 1 caliper and disc ØD (mm)	N.m	BT = BF(D/2000 - 0.055)	

- **Opening proving 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.
- **Air gap switch**:
  240V. 3A AC
  250V. 0.27A DC

∗ **US2-1**: disc temperature during one braking ≤ 150°C
US2-5: tdisc temperature during one braking ≤ 350°C