Brake Operating Criteria

the brake is applied by:

- ○ spring power
- ○ weight power
- ○ thruster with brake spring
- ○ hydraulic cylinder
- ○ pneumatic cylinder
- ○ solenoid
- ○ actuating drive
- ○ mechanically
- ○ .....

the brake is released by:

- ○ spring power
- ○ thruster
- ○ hydraulic cylinder
- ○ pneumatc cylinder
- ○ solenoid
- ○ actuating drive
- ○ mechanically
- ○ .....

Type of brake: ○ stopping brake; ○ holding brake; ○ emergency stop brake; ○ controlling brake; ○ .....

Use of brake: ○ hoisting gear; ○ traveling gear; ○ conveyors; ○ slewing cranes; ○

Environment data: range of application: .....
ambient temperature: from up to °C
humidity: up to %
ambient air: ○ wet; ○ oil laden; ○ dust laden;
brake with cover: ○ yes ○ no

Necessary technical data:

hoisting gear

1.	hoisting load	kg
2.	load of the traverse or other	kg
3.	lifting speed with full load	m/s
4.	lowering speed with full load	m/s
5.	number of drive motors	
6.	horsepower of the motors	kW
7.	nominal speed of the motors	r.p.m.
8.	motor starting torque	Nm
9.	duty rating	o.p.h.
10.	operating time refered to one hour	%
11.	rope arrangement	
12.	diameter of the rope drum	mm
13.	gear box ratio	
14.	inertia of the motor, the coupling, the gear box	kgm^2
15.	permissible brake distance	m

travelling gear

1.	total weight without hoisting load	kg
2.	hoisting load	kg
3.	running speed	kg
4.	number of drive motors	
5.	horsepower of the motors	kW
6.	nominal motor speed	r.p.m.
7.	duty rating	o.p.h.
8.	motor starting torque	Nm
9.	operating time refered to one hour	%
10.	necessary braking time	s
11.	wind power	N
12.	slope descending force	N
13.	diameter of running wheel	mm
14.	gear box ratio	
15.	inertia of the motor, the coupling, the gear box	kgm^2

conveyors

1.	transporting capacity	kg/h
2.	total load per belt length	kg
3.	transporting speed	m/s
4.	number of drive motors	
5.	horsepower of the motors	kW
6.	nominal motor speed	r.p.m.
7.	motor starting torque	Nm
8.	duty rating	o.p.h.
9.	operating time refered to one hour	%
10.	diameter of the driving wheel	mm
11.	gear box ratio	
12.	inertia of the motor, the coupling, the gear box	kgm^2
13.	transporting length/height	m
14.	angle of inclination	°
15.	permissible brake distance, time	m, s

slewing cranes

1.	inertia of the total rotated mass	kgm^2
2.	number of drive motors	
3.	horsepower of the motors	kW
4.	nominal motor speed	r.p.m.
5.	motor starting torque	Nm
6.	duty rating	o.p.h.
7.	operating time refered to one hour	%
8.	necessary braking time	s
9.	wind power	N
10.	gear box ratio	
11.	inertia of the motor, the coupling, the gear box	kgm^2

edition 3/97

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