

Brake Operation Criteria

of emergency brakes in hoisting gears

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Inquiry / Project Ref.

Client

Quotation Number

Data Brake			
location	indoor <input type="checkbox"/>	outdoor <input type="checkbox"/>	roofed <input type="checkbox"/>
ambient temperature	from [°C]	to [°C]	
humidity	dry <input type="checkbox"/>	wet <input type="checkbox"/>	rel. humidity [%]
	dusty <input type="checkbox"/>	abrasive <input type="checkbox"/>	
aggressive substance	acidic <input type="checkbox"/>	saline <input type="checkbox"/>	substance:
electric connection	supply current [A]	supply voltage [V]	control voltage [V]
options	cover hood <input type="checkbox"/>	aluminium <input type="checkbox"/>	stainless steel <input type="checkbox"/>
	oilpan <input type="checkbox"/>		
Data Hoisting Gear			
lifting capacity			[t]
mass of load-bearing device	jig, hook block, etc.		[kg]
number of brakings			[1/h]
load spectrum class			
lifting speed	at full load		[m/min]
	without load		[m/min]
number of wire ropes	total number of all bearing ropes		
number of ropes on drum	number of hoists		
number of wire rope drums			
rope drum diameter	middle of rope or last rope position		[mm]
brake disc diameter	max. permissible diameter		[mm]
nominal speed rope drum			[min ⁻¹]
gear ratio			
engine	number		
	power performance		[kW]
	nominal speed		[min ⁻¹]
	duty cycle		[%]
Additional Data			
moment of inertia	related to motor shaft		[kgm ²]
admissible overtravel of the load			[m]
switching delay of control			[ms]