

QUESTIONNAIRE

FOR DESIGN OF SPRING-DRIVEN CABLE REELS

Company: _____
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QUANTITY OF CABLE REELS

1. Spring-driven cable reels _____ pieces

CABLE

2. Total power of the movable machine / cross section of the cable _____ kW / _____ mm²

3. Outer diameter _____ mm

4. Weight _____ kg/m

5. Voltage _____ V

6. Number of poles _____ PE + _____ poles

7. Cable length operationally to be reeled + cable length not to be reeled _____ m + _____ m

SLIP RING ASSEMBLY

8. Number of slip rings _____ PE + _____ poles

9. Max. current load of slip rings _____ A

10. Fibre optic rotary connector / number of fibres yes no / _____ fibres

11. Type of fibre E9/125 (single mode) 50/125 m μ (multi mode) 62,5/125 m μ (multi mode)

12. System Profibus DP CanBus Profinet Ethernet Cat.5

13. Heating / voltage yes no / _____ V

DEVICE DATA

14. Travel speed or lifting speed min. _____ up to max. _____ m/min

15. Mode of cable pay-off mechanical manual

16. Load cycles per hour / operating hours per day _____ load cycles / _____ hours

17. Mounting height above cable deposit up to centre of cable axle _____ m

18. Arrangement acc. to sketch (cf. addendum) 1 2 3 4 5 6 7 8 9 10 11

Vertical height (h) / cable sag (f) h = _____ m / f = _____ m

Winding length (l_w) / length not to be reeled (l₀) l_w = _____ m / l₀ = _____ m

19. Mode of winding spiral cylindrical

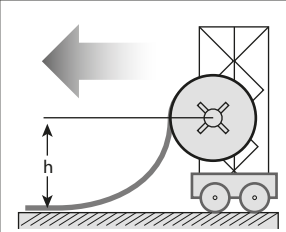
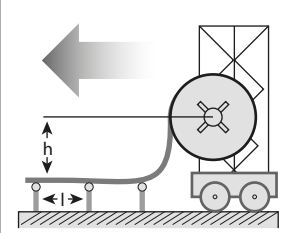
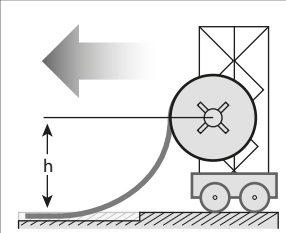
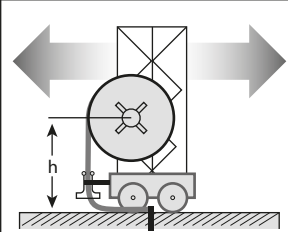
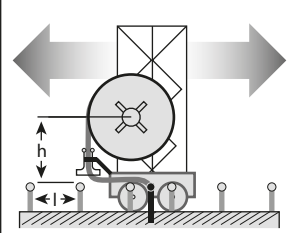
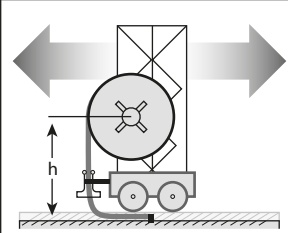
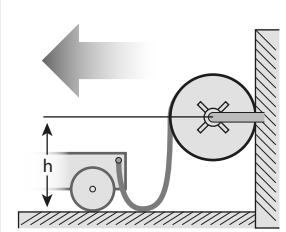
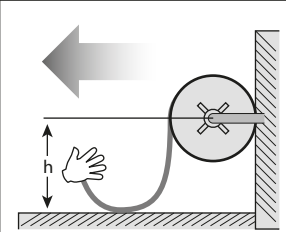
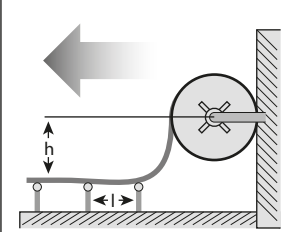
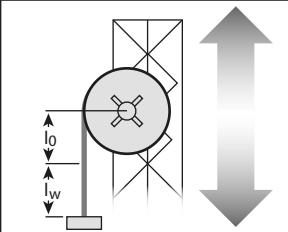
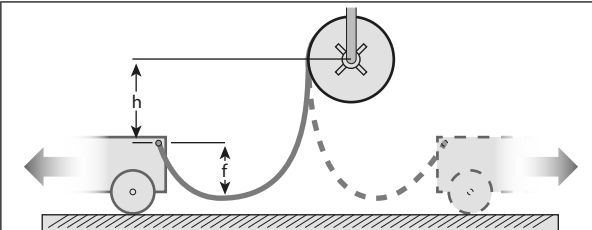
20. Ambient temperature indoor use outdoor use - _____ °C up to _____ °C

21. Environmental influences _____

22. Other _____

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FOR DESIGN OF SPRING-DRIVEN CABLE REELS

APPLICATION ON MOBILE EQUIPMENT	
<p>Sketch 1:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed on moveable machine ▪ Horizontal cable pay-off ▪ End feeding ▪ Floor placement 	
<p>Sketch 2:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed on moveable machine ▪ Horizontal cable pay-off ▪ End feeding ▪ Guide roller placement 	
<p>Sketch 3:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed on moveable machine ▪ Horizontal cable pay-off ▪ End feeding ▪ Channel placement 	
<p>Sketch 4:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed on moveable machine ▪ Cable pay-off guided by diverting unit ▪ Center feeding ▪ Floor placement 	
<p>Sketch 5:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed on moveable machine ▪ Cable pay-off guided by diverting unit ▪ Center feeding ▪ Guide roller placement 	
<p>Sketch 6:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed on moveable machine ▪ Cable pay-off guided by diverting unit ▪ Center feeding ▪ Channel placement 	
APPLICATION ON FIXED EQUIPMENT	
<p>Sketch 7:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed in fixed position ▪ Horizontal cable pay-off ▪ Automatic operation ▪ Possibly floor contact 	
<p>Sketch 8:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed in fixed position ▪ Horizontal manual cable pay-off ▪ incl. return stop ▪ Possibly floor contact 	
<p>Sketch 9:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed in fixed position ▪ Horizontal cable pay-off ▪ Guide roller placement 	
<p>Sketch 10:</p> <ul style="list-style-type: none"> ▪ Cable reel is installed in fixed position <input type="checkbox"/> Vertical cable pay-off up- and/or downward <input type="checkbox"/> Vertical reel movement up- and/or downward 	
APPLICATION ON FIXED/MOBILE EQUIPMENT	
<p>Sketch 11:</p> <ul style="list-style-type: none"> ▪ The cable reel is installed stationary or on a movable machine ▪ "freely tensioned" cable pay-off 	

QUESTIONNAIRE

SKETCH SHEET

