



Akapp-Stemmann

A Wabtec Activity

Spring-driven - Charging REEL

DCCCS2CE-S.10UAR-200A1000V-10.1M/7911350



SPECIFICATION

AKAPP-STEMMANN PRODUCTS

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1 General notes on the specification

1.1 Preamble

With this specification we present to you the appropriate technical data related to the offered or ordered position. It serves as a continuative document for the accompanying technical drawings.

Since this specification can contain general figures and depictions, it can happen that some depictions and diagrams do not totally exactly with what is delivered, in dimensions and in appearance.

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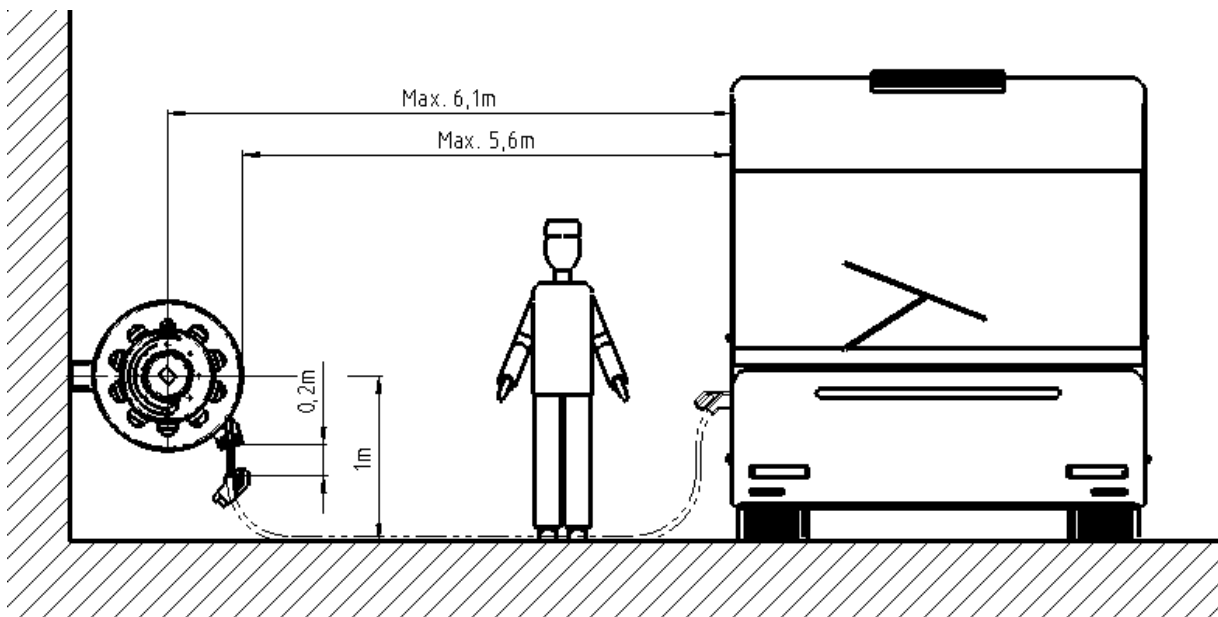
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2 Scope of delivery

2.1 Cable to be reeled

This reel is suitable for spiral winding of flexible and reel able rubber hose cable including 1 winding as tension relief.

Installation height (from cable tray to middle reel body): 1 m
 Winding length: approx. 7,0 m
 Tension relief: approx. 1,8 m
 Connection length SRA side: approx. 1,0 m
 Free suspended cable (from short guide arm): approx. 0,2 m
 Total length: 10 m
 Cable type: K.1
 Charging plug: CCS type 2
 Cross section: $2 \times 70 \text{mm}^2 + 1 \times 35 \text{mm}^2 + 3 \times 2 \times 0,75 \text{mm}^2$
 Operating voltage: 1000V DC
 Number of layers: 5
 Max. transfer (at 30 ° C and 100% ED): 200 A



2.2 Max. power transmission

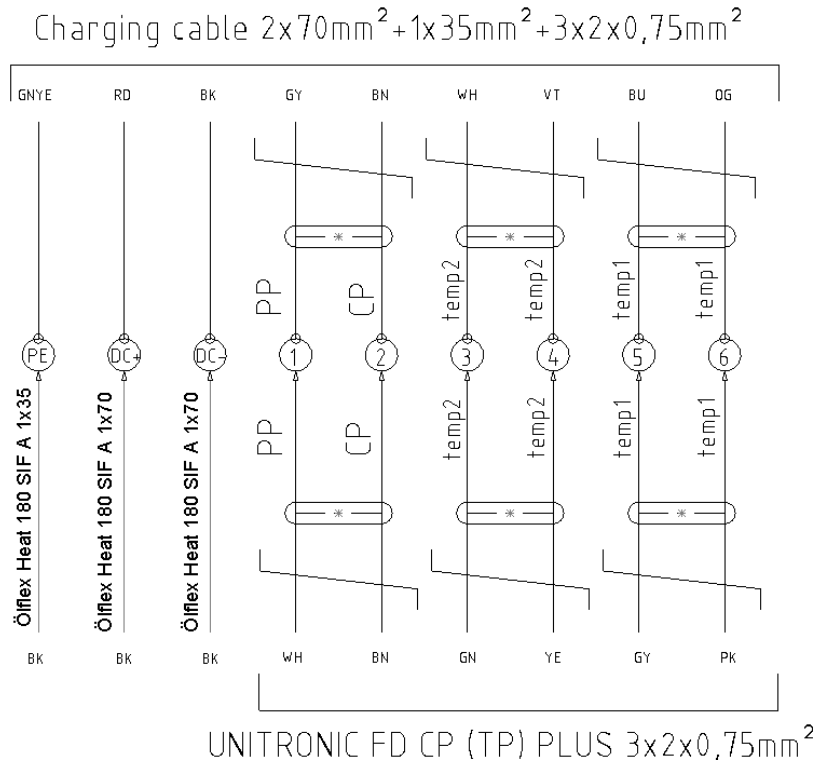
Environmental temperature	30°C	40°C	40°C	45°C	45°C	45°C
Duty cycle *	100%	100%	60%	100%	60%	40%
Max. amperage	200A	178A	210A	168A	198A	230A

* considering IEC 60034-1

2.3 Connection line

Cable through the axle wired to the slip ring assembly. Pre-wired with single cores and according to connection diagram:

Schleifringe
slip rings



Free connection length from flange: 2m

Connection cable:..... Consisting of single cores
 Cable:..... Ölflex Heat 180 SIF A 1x70 BK
 Cable:..... Ölflex Heat 180 SIF A 1x70 BK
 Cable:..... Ölflex Heat 180 SIF A 1x35 BK
 Cable:..... UNITRONIC FD CP (TP) PLUS $3 \times 2 \times 0,75\text{mm}^2$

Existing cable glands for connecting cable: 1 x M50 / 1 x M20
 Max. cable diameter M50x1,5:..... \varnothing 40mm
 Max. cable diameter M20x1,5:..... \varnothing 13mm

Attention: The total cable length is 12m (10m on the reel + 2m connection length)!

**Interference-free V2G communication according to ISO 15118 with
 Cable lengths over 10 m, are not guaranteed (ISO IEC 15118-3, A.11.3,
 Table A.11).**

Wire connection:

With single cores $2 \times 70\text{mm}^2$, $1 \times 35\text{mm}^2$, $3 \times 2 \times 0,75\text{mm}^2$ through the M50 cable gland.
 M50 screw connection with image insert drilled according to the cable diameter.

Cable: Ölflex Heat 180 SIF A 1x35 Black with shrink tube "green-yellow".
 Cable: Ölflex Heat 180 SIF A 1x70 Black (DC+) with shrink tube "red".

2.4 Device data

Reel arrangement:..... horizontally cable pay-off
 Travel speed: cable pay-off by hand
 Cable pay-off:..... right (seen on SRA)

2.5 Reel body

The reel body is spirally winding and fixed in place.

Dimensions:

Inner diameter: d = 400 mm
 Outer diameter: D = 900 mm
 Additional outer diameter:..... Ds = 560 mm
 Reel body width:..... L = 140 mm
 Winding width:..... WB = 36 mm
 Arrangement winding Body: at the flange
 Total reel body width: 176 mm (140 mm + 36 mm)

2.6 Slip ring assembly

The slip ring assembly is installed outside the reel body in a separate protective hood.

Slip ring assembly type:..... 0603+BAKO06
 Slipping type: PE + 2 pole 200A (DC + / DC -) + 6 pole 10A 24V
 Consisting of: PE on 100A ring, DC+ and DC- on 200A Ring, multi-layer coat with additional cover

SRA 0603

Amperage:.....200 A
 Operating mode:..... 100 % duty
 Voltage:..... 1000 Volt DC
 Protection class:.....IP 65

BAKO06

Amperage:.....3 A
 Operating mode:..... 100 % duty
 Voltage:.....24 V
 Signal transmission: up to 100 Mbit/s
 Protection class:.....IP 65

2.7 Reel drive

The drive of the cable reel is effected by a spring.

Type: UA
 Number of springs: 1 piece
 Average lifetime: 100.000 movements

Min. preload turns: 2,5 turns
 Spare turns: 1 turn
 Total turns: 16,5 turns

Max. operation turns: 13 turns
 needed operation turns: 5 turns
 Existing preload turns: 2,5 turns

Existing force, winding fully winded cable reel: approx. 25 Nm / 55 N
 Required force, winding fully winded cable reel: approx. 50 N

Existing force, winding empty cable reel: approx. 50 Nm / 240 N
 Required force, winding empty cable reel: approx. 100 N

2.8 Accessories

Laying on and connection reel side **yes**

Laying on and connection through the axle **yes**

Return locking **yes**

Short guide arm **yes**

Type: Winding width 40, separable
 Surface: Galvanic galvanized

Bearing **yes**

Type: for TLF 400
 execution: Rigid
 Attachment: wall, ground
 Surface: Galvanic galvanized

Rubber stop for mechanical end stop **yes**

2.9 Environmental conditions

Environmental temperature: from -10 °C to + 45 °C
 Operating temperature: see point 2.2
 Air humidity: up to 100 %
 Environment: dusty
 Country of arrival: Worldwide

2.10 Documentation

1 x English as PDF file

Consisting of:

-: Installation instructions
 -: Operation and maintenance manual
 -: Total drawing as PDF file

2.11 Regulations and standards

-: IEC, DIN, VDE
 Ladeleitung: DIN EN 50620
 Ladestecker CCS typ 2: IEC 62196-3
 Communication, Signal requirements: IEC 15118-3

2.12 Surface treatment

Painting colour system: Powder coating
 Flanged wheel: Galvanic galvanized
 Reel body core: RAL 5012
 Attached parts: Galvanic galvanized
 Slip ring assembly cover: Plastic PA6 (black)

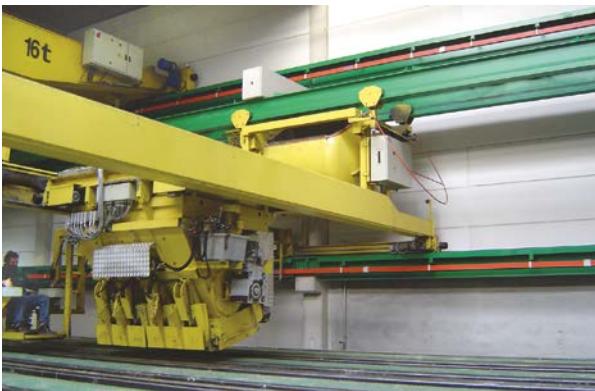
2.13 Inscription

Warning signs: in English
 Name plate: in English

2.14 General

All screws: Stainless steel

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