

# Encoder A449/002

OrderNo.:41449005-01000  
8.10.2019 / 0

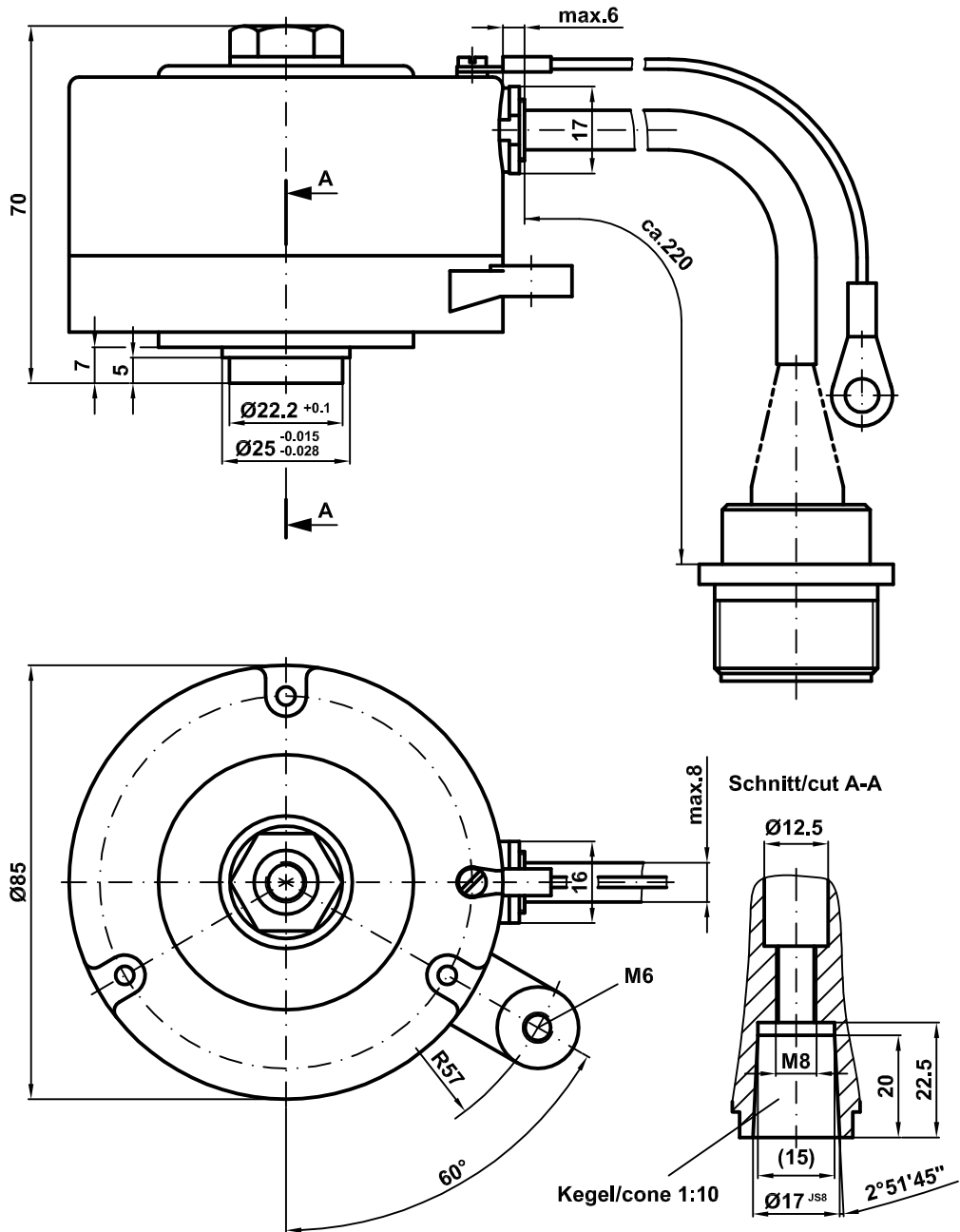
## Technical data

Pulse-rate	1000
Channels	A,A/,B,B/,N,N/
Signals	square wave
Supply voltage	5V
Output voltage	5V
Output frequency	300kHz
Cable/Connector entry	side cable
Cable length	220mm
Pin assignment	ST9834
Shaft design	Konus
Enclosure rating	IP60
Limit temperature	-20/+110°C
Shaft load axial	10N
Shaft load radial	20N
DRAWING NO.	41-449-005-

<b>GL</b>	Wellenausführung glatt / shaft type cylindrical
<b>FL</b>	Wellenausführung mit Fläche / shaft type with flat surface
<b>N</b>	Wellenausführung mit Nut / shaft type with slot
<b>Hohlw</b>	Hohlwelle / hollow shaft
<b>Klemme</b>	mit Klemmring / with clamping ring
<b>Grundw</b>	Grundwelle / fundamental shaft
<b>SLG</b>	Seillängengeber / cable retractor
<b>ZB</b>	Zentrierbund / centre ring
<b>Tachofl</b>	Tachoflansch / tachometer flange
<b>DAG</b>	DAG-Schutzgehäuse / DAG protective housing
<b>TK</b>	Teilkreis / pitch circle

Subject to change.

**Mechanische Abmessungen für Gebertyp AMI**  
**Mechanical dimensions encoder-type AMI**  
**A449/002 (41449005-XXXXX)**



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# Pin assignment

Pin assignment number: 9834

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Connector name: 17-pol AMPHENOL

Pin-count: 17

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Pin	Designation	Description	Level	Driver	NC	Colour
A	CH_A_OUT	Channel A	5V	RS 422		brown
B	CH_B_OUT	Channel B	5V	RS 422		gray
C	Supply Voltage IN	Supply voltage	5V			brown 0,5
D	/CH_A_OUT	Channel A inverted	5V	RS 422		green
E	/CH_B_OUT	Channel B inverted	5V	RS 422		pink
F	CH_I_OUT	Channel Reference	5V	RS 422		red
G	/CH_I_OUT	Channel Reference inverted	5V	RS 422		black
H	Screen	Shield				transparency
J	Supply Voltage IN	Supply voltage	5V			blue
K	Supply Voltage IN	Supply voltage	5V			(bridge)
L	not connected					
M	not connected					
N	Ground IN	Ground	0V			white 0,5
P	Ground IN	Ground	0V			white
R	Bridge R-S					
S	Bridge R-S					
T	Ground IN	Ground	0V			(bridge)

## WARNING

'De-energize the system before carrying out wiring work or opening and closing electrical connections !

Short-circuits, voltage peaks, etc. can cause operating failures and uncontrolled operating states, as well as serious personal injuries and damage to property.

Verdrahtungsarbeiten, Öffnen und Schließen von elektrischen Verbindungen nur im spannungslosen Zustand durchführen ! Kurzschlüsse, Spannungsspitzen etc. können zur Fehlfunktion und unkontrollierten Zuständen der Anlage bzw. zu erheblichen Personen- und Sachschäden führen.