



**CTH50119** series provides a 50mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 119mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many-challenging applications.

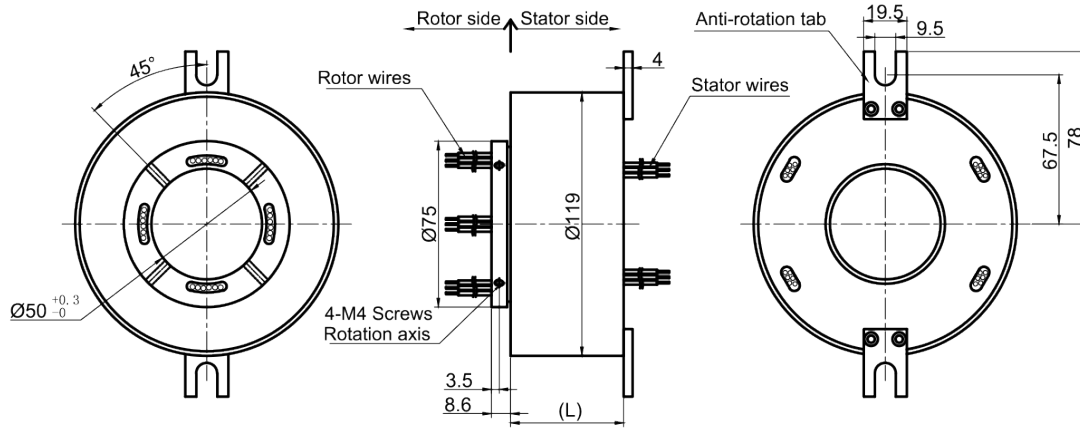
**CTH50119** series are standard, off-the-shelf products, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. It can transmit signal [2A], 10A, multiple 10A current when 360° degree free rotating.

## Technical Data

Modele	Lenght	Circuits	
	mm	5A	10A
CTH50119-00P/02S	36	2	0
CTH50119-02P/00S	36	0	2
CTH50119-00P/03S	39,8	3	0
CTH50119-03P/00S	39,8	0	3
CTH50119-00P/06S	51,2	6	0
CTH50119-02P/04S	51,2	4	2
CTH50119-04P/02S	51,2	2	4
CTH50119-06P/00S	51,2	0	6
CTH50119-00P/12S	74	12	0
CTH50119-02P/10S	74	10	2
CTH50119-03P/09S	74	9	3
CTH50119-06P/06S	74	6	6
CTH50119-08P/04S	74	4	8
CTH50119-10P/02S	74	2	10
CTH50119-12P/00S	74	0	12
CTH50119-00P/18S	96,8	18	0
CTH50119-02P/16S	96,8	16	2
CTH50119-04P/14S	96,8	14	4
CTH50119-06P/12S	96,8	12	6
CTH50119-08P/10S	96,8	10	8
CTH50119-10P/08S	96,8	8	10
CTH50119-12P/06S	96,8	6	12
CTH50119-14P/04S	96,8	4	14
CTH50119-16P/02S	96,8	2	16
CTH50119-00P/24S	119,6	24	0
CTH50119-04P/20S	119,6	20	4
CTH50119-06P/18S	119,6	18	6
CTH50119-12P/12S	119,6	12	12
CTH50119-18P/06S	119,6	6	18
CTH50119-24P/00S	119,6	0	24
CTH50119-00P/30S	142,4	30	0
CTH50119-06P/24S	142,4	24	6
CTH50119-12P/18S	142,4	18	12
CTH50119-18P/12S	142,4	12	18
CTH50119-24P/06S	142,4	6	24
CTH50119-30P/00S	142,4	0	30

Modele	Lenght	Circuits	
	mm	5A	10A
CTH50119-00P/36S	169,2	36	0
CTH50119-06P/30S	169,2	30	6
CTH50119-12P/24S	169,2	24	12
CTH50119-36P/00S	169,2	0	36
CTH50119-00P/42S	192	42	0
CTH50119-06P/36S	192	36	6
CTH50119-12P/30S	192	30	12
CTH50119-00P/48S	217,4	48	0
CTH50119-06P/42S	217,4	42	6
CTH50119-09P/39S	217,4	39	9
CTH50119-12P/36S	217,4	36	12
CTH50119-18P/30S	217,4	30	18
CTH50119-24P/24S	217,4	24	24
CTH50119-00P/60S	263	60	0
CTH50119-06P/54S	263	54	6
CTH50119-09P/51S	263	51	9
CTH50119-12P/48S	263	48	12
CTH50119-00P/72S	312,6	72	0
CTH50119-06P/66S	312,6	66	6
CTH50119-12P/60S	312,6	60	12
CTH50119-24P/48S	312,6	48	24
CTH50119-36P/36S	312,6	36	36
CTH50119-00P/84S	358,2	84	0
CTH50119-12P/72S	358,2	72	12
CTH50119-24P/60S	358,2	60	24
CTH50119-36P/48S	358,2	48	36
CTH50119-00P/96S	403,8	96	0
CTH50119-12P/84S	403,8	84	12
CTH50119-24P/72S	403,8	72	24
CTH50119-36P/60S	403,8	60	36
CTH50119-42P/54S	403,8	54	42
CTH50119-00P/108S	453,4	108	0
CTH50119-12P/96S	453,4	96	12
CTH50119-24P/84S	453,4	84	24
CTH50119-36P/72S	453,4	72	36
CTH50119-48P/60S	453,4	60	48

# DRAWING



Dimensions in mm

## LEAD WIRES COLOR CODE

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	RED	YEL	GRN	BLU	WHT	BLK	RED	YEL	GRN	BLU	WHT

# SPECIFICATIONS

## ELECTRICAL DATA

Parameter	Power	Signal
Rated Voltage	0~690VAC/VDC	0~440VAC/VDC
Insulation Resistance	$\geq 1000\text{M}\Omega / 500\text{VDC}$	$\geq 1000\text{M}\Omega / 500\text{VDC}$
Lead Wires	AWG16#Teflon	AWG22#Teflon
Lead Length	Standard 300mm (adjustable)	
Insulation Strength	1000VAC@50Hz, 60s	
Electrical Noise	<0,01 $\Omega$	

## MECHANICAL DATA

Parameter	Value
Working Life	See Product Quality Level Table
Rotating Speed	See Product Quality Level Table
Working Temperature	-30°C~80°C
Operating Humidity	0~85% RH
Contact Material	See Product Quality Level Table
Housing Material	Aluminium Alloy
Torque	0,1Nm; +0,03Nm/Grings
Protection Grade	IP51

## PRODUCT QUALITY LEVEL TABLE

Products Level Code	Max Rotating Speed	Working Life	Contact Material
S	250RPM	20 Million Revs	Precious Metal
I	600RPM	80 Million Revs	Gold-Gold
H	1000RPM	150 Million Revs	Gold-Gold

# PART NUMBER COMPOSITION

**CTH 50119S - xxP/yyS - 00000 - XXXXX**

①

- ① Inner Dia  
② Outer Dia  
③ Quality Level  
S = Standard  
I = Industrial  
H = High level

②

- ④ Number of power wires  
⑤ Number of signal wires  
⑥ Flange  
00  
01  
..07

④

- ⑦ Flange Position  
O = No Flange  
R = Rotor  
I = Interior  
S = Stator

⑤

⑥

- ⑧ Rotor cable length  
0 = 300mm  
1 = 600mm  
2 = 1200mm  
X = Custom  
⑨ Stator cable length  
0 = 300mm  
1 = 600mm  
2 = 1200mm  
X = Custom

⑧

⑦

⑧

⑨

⑩

- ⑩ Special Options  
01CAN = CanOpen  
01ECT= Ethercat  
01PRO = Profibus  
01ETH = Giga Ethernet  
IP65 = IP65  
IP68 = IP68

In accordance with our policy of continual product improvement, A2V reserves the right to amend the specification of these products without prior notification