



CTH70158 series provides a 70mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 158mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many-challenging applications.

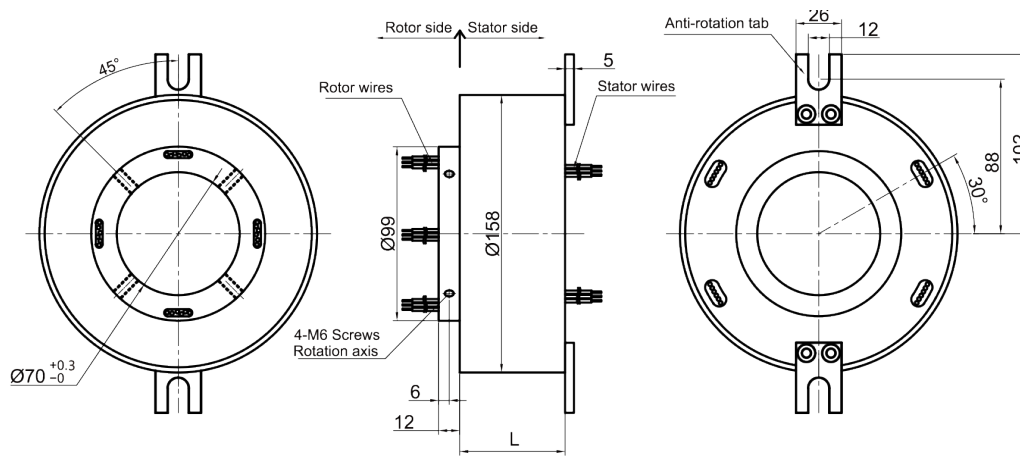
CTH70158 series are standard, off-the-shelf products, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. It can transmit signal[2A], 10A, multiple 10A current when 360° degree free rotating.

Technical Data

Modele	Lenght	Circuits	
	mm	5A	10A
CTH70158-00P/02S	45,6	2	0
CTH70158-02P/00S	45,6	0	2
CTH70158-00P/03S	49,2	3	0
CTH70158-03P/00S	49,2	0	3
CTH70158-00P/06S	60	6	0
CTH70158-02P/04S	60	4	2
CTH70158-04P/02S	60	2	4
CTH70158-06P/00S	60	0	6
CTH70158-00P/12S	81,6	12	0
CTH70158-02P/10S	81,6	10	2
CTH70158-03P/09S	81,6	9	3
CTH70158-06P/06S	81,6	6	6
CTH70158-08P/04S	81,6	4	8
CTH70158-10P/02S	81,6	2	10
CTH70158-12P/00S	81,6	0	12
CTH70158-00P/18S	103,2	18	0
CTH70158-02P/16S	103,2	16	2
CTH70158-04P/14S	103,2	14	4
CTH70158-06P/12S	103,2	12	6
CTH70158-08P/10S	103,2	10	8
CTH70158-10P/08S	103,2	8	10
CTH70158-12P/06S	103,2	6	12
CTH70158-14P/04S	103,2	4	14
CTH70158-16P/02S	103,2	2	16
CTH70158-00P/24S	124,8	24	0
CTH70158-04P/20S	124,8	20	4
CTH70158-06P/18S	124,8	18	6
CTH70158-12P/12S	124,8	12	12
CTH70158-18P/06S	124,8	6	18
CTH70158-24P/00S	124,8	0	24
CTH70158-00P/30S	146,4	30	0
CTH70158-06P/24S	146,4	24	6
CTH70158-12P/18S	146,4	18	12
CTH70158-18P/12S	146,4	12	18
CTH70158-24P/06S	146,4	6	24
CTH70158-30P/00S	146,4	0	30

Modele	Lenght	Circuits	
	mm	5A	10A
CTH70158-00P/36S	172	36	0
CTH70158-06P/30S	172	30	6
CTH70158-12P/24S	172	24	12
CTH70158-36P/00S	172	0	36
CTH70158-00P/42S	205,2	42	0
CTH70158-06P/36S	205,2	36	6
CTH70158-12P/30S	205,2	30	12
CTH70158-00P/48S	226,8	48	0
CTH70158-06P/42S	226,8	42	6
CTH70158-09P/39S	226,8	39	9
CTH70158-12P/36S	226,8	36	12
CTH70158-18P/30S	226,8	30	18
CTH70158-24P/24S	226,8	24	24
CTH70158-00P/60S	270	60	0
CTH70158-06P/54S	270	54	6
CTH70158-09P/51S	270	51	9
CTH70158-12P/48S	270	48	12
CTH70158-00P/72S	317,2	72	0
CTH70158-06P/66S	317,2	66	6
CTH70158-12P/60S	317,2	60	12
CTH70158-24P/48S	317,2	48	24
CTH70158-36P/36S	317,2	36	36
CTH70158-00P/84S	360,4	84	0
CTH70158-12P/72S	360,4	72	12
CTH70158-24P/60S	360,4	60	24
CTH70158-36P/48S	360,4	48	36
CTH70158-00P/96S	407,6	96	0
CTH70158-12P/84S	407,6	84	12
CTH70158-24P/72S	407,6	72	24
CTH70158-36P/60S	407,6	60	36
CTH70158-42P/54S	407,6	54	42
CTH70158-00P/108S	450,8	108	0
CTH70158-12P/96S	450,8	96	12
CTH70158-24P/84S	450,8	84	24
CTH70158-36P/72S	450,8	72	36
CTH70158-48P/60S	450,8	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	<0,01Q	

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/6rings
Protection Grade	IP51

PRODUCT QUALITY LEVEL TABLE

Products Level Code	Max Rotating Speed	Working Life	Contact Material
S	150RPM	10 Million Revs	Precious Metal
I	400RPM	30 Million Revs	Gold-plated
H	800RPM	80 Million Revs	Gold-Gold

PART NUMBER COMPOSITION

GTH 70158S - xxP/yyS - 00000 - XXXXX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

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

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

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

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

- 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