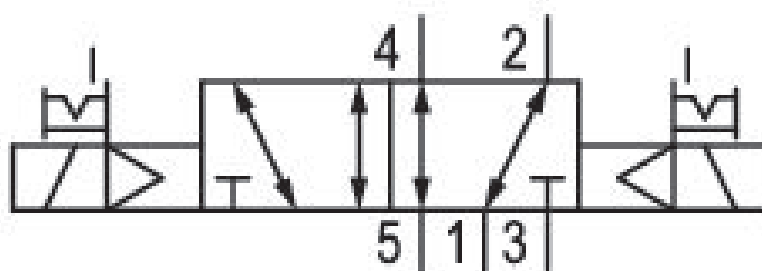


5/2-directional valve, Series CD07-LT

R414012298

General series information Series CD07-LT

- AVENTICS series CD07-LT consists of various spool valves with an extremely durable aluminum housing. CD07-LT is designed to operate under extreme ambient temperatures from $-40\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$ and extended voltage tolerance from -30% to $+25\%$. The CD07-LT series is ideal for applications in harsh environments and complies with international standards for railroad applications.



Technical data

Industry

Activation

Frame size

Valve type

Switching principle

Valve function

Actuating control

Sealing principle

Connection type

Manual override

Compressed air connection

Rail

Electrically

CD07-LT

Spool valve, positive overlapping

5/2, double solenoid

NC

Double Solenoid

soft seal

Pipe connection

with detent

flange

Compressed air connection input	flange
Compressed air connection output	flange
Compressed air connection, exhaust	flange
Nominal flow Qn	1000 l/min
Nominal flow Qn 1 to 2	1000 l/min
Nominal flow Qn 2 to 3	1000 l/min
Working pressure min.	3 bar
Working pressure max.	10 bar
Control pressure min.	3 bar
Control pressure max.	10 bar
Electrical connection type	Plug
Electrical connection size	EN 175301-803, form A
Electrical connection number of poles	3-pin
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Operational voltage	24 V DC
DC operating voltage	24 V
Voltage tolerance DC	-30% / +25%
Pilot	Internal
Pilot valve width	30 mm
Power consumption DC	5.5 W
Duty cycle	100 %
Typ. switch-on time	110 ms
Typ. switch-off time	110 ms
Min. ambient temperature	-40 °C
Max. ambient temperature	70 °C
Min. medium temperature	-40 °C
Max. medium temperature	70 °C
Medium	Compressed air
Oil content of compressed air min.	0 mg/m ³
Oil content of compressed air max.	1 mg/m ³
Max. particle size	50 µm

Weight 0.806 kg

Material

Housing material	Aluminum, anodized Polyamide fiber-glass reinforced
Material Coil	Stainless Steel Polyamide
Seal material	Hydrogenated nitrile butadiene rubber Polyurethane Silicon
Part No.	R414012298

Technical information

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

Pilot valve mounting on top

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

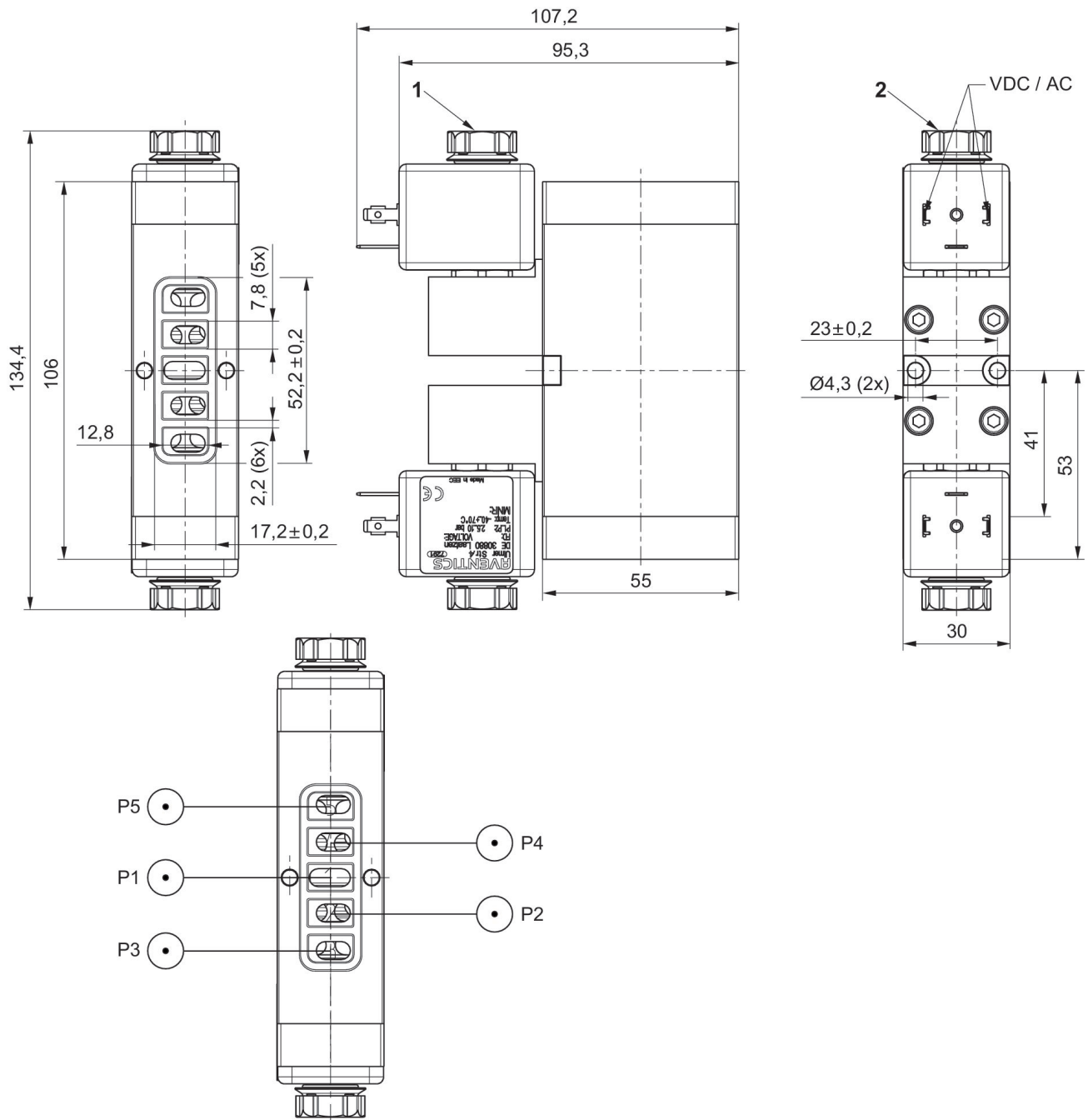
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.

Dimensions in mm



- 1) Silencer
- 2) Valve plug connector form A, EN 175301-803