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5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- with spring/air spring return
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, ISO 15217, form C
- Manual override without detent

Version	Spool valve, positive overlapping
Pilot	internal
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	See table below

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Technical data

Part No.		MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
0820038154			-	24 V	24 V
0820038152			24 V	-	-
0820038153			24 V	-	-
0820038155			-	110 V	110 V
0820038151			-	230 V	230 V
0820038654			-	24 V	-
0820038652			24 V	-	-
0820038653			24 V	-	-
0820038655			-	110 V	110 V
0820038651			-	230 V	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
0820038154	-	-10% / +10%	-10% / +10%	-
0820038152	-10% / +10%	-	-	2 W
0820038153	-10% / +10%	-	-	1 W
0820038155	-	-10% / +10%	-10% / +10%	-
0820038151	-	-10% / +10%	-10% / +10%	-
0820038654	-	-10% / +10%	-10% / +10%	-
0820038652	-10% / +10%	-	-	2 W
0820038653	-10% / +10%	-	-	1 W
0820038655	-	-10% / +10%	-10% / +10%	-
0820038651	-	-10% / +10%	-10% / +10%	-

Part No.	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz
0820038154	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038152	-	-	-	-
0820038153	-	-	-	-
0820038155	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038151	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038654	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038652	-	-	-	-
0820038653	-	-	-	-
0820038655	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038651	1,6 VA	1,4 VA	2,2 VA	2 VA

Part No.	Working pressure min./max.	Control pressure min./max.	Typ. switch-on time
0820038154	2 ... 10 bar	2 ... 10 bar	11 ms
0820038152	2 ... 10 bar	2 ... 10 bar	11 ms
0820038153	2 ... 10 bar	2 ... 10 bar	12 ms
0820038155	2 ... 10 bar	2 ... 10 bar	11 ms
0820038151	2 ... 10 bar	2 ... 10 bar	11 ms

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Part No.	Working pressure min./max.	Control pressure min./max.	Typ. switch-on time
0820038654	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038652	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038653	1,5 ... 10 bar	1,5 ... 10 bar	10 ms
0820038655	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038651	1,5 ... 10 bar	1,5 ... 10 bar	8 ms

Part No.	Typ. switch-off time	Electrical connection Pilot valve	Weight	
0820038154	14 ms	Plug ISO 15217, form C	0,11 kg	-
0820038152	14 ms	Plug ISO 15217, form C	0,11 kg	-
0820038153	16 ms	Plug ISO 15217, form C	0,11 kg	1)
0820038155	14 ms	Plug ISO 15217, form C	0,11 kg	-
0820038151	14 ms	Plug ISO 15217, form C	0,11 kg	-
0820038654	8 ms	Plug ISO 15217, form C	0,16 kg	-
0820038652	8 ms	Plug ISO 15217, form C	0,16 kg	-
0820038653	10 ms	Plug ISO 15217, form C	0,16 kg	1)
0820038655	8 ms	Plug ISO 15217, form C	0,16 kg	-
0820038651	8 ms	Plug ISO 15217, form C	0,16 kg	-

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

1) Low power consumption

Technical information

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 under 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 the MediaCentre).

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

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Dimensions

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