

# Motion Terminal VTEM

Part number: 8047502

**FESTO**



## Data sheet

Feature	Value
Valve size	27 mm
Valve manifold design	Fixed grid
Width dimension	28 mm
Max. no. of valve positions	8
Exhaust air function	Without flow control option
Pilot air supply port	External Internal
Electrical I/O system	yes
Degree of protection	IP65
LABS (PWIS) conformity	VDMA24364 zone III
Note on materials	RoHS-compliant
Seals material	NBR TPE-U(PU)
Material fire test	UL94 HB
For use in the food industry	See supplementary material information
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas
Information on operating and pilot media	Operation with oil lubrication not possible Condensation in the valve not allowed
Operating pressure	0.3 MPa...0.8 MPa 3 bar...8 bar 43.5 psi...116 psi
Pilot pressure MPa	0.3 MPa...0.8 MPa
Pilot pressure	3 bar...8 bar
Pilot pressure psi	43.5 psi...116 psi
Information on operating pressure	0 - 8 bar with external pilot air Vacuum operation at connection 3 only
Valve function	Can be assigned using Motion App

Feature	Value
Motion apps	Leakage diagnostics Flow control ECO drive Positioning Proportional pressure regulation Proportional directional control valve Soft Stop Presetting of travel time Directional control valve functions Supply and exhaust air flow control Model-based proportional pressure regulation Selectable pressure level
Actuation type	Electrical
Sealing principle	Soft
Structural design	Piston seat
Type of control	Pilot-controlled
Nominal width	4.2 mm
Standard flow rate 0.8->0 MPa (8->0 bar, 116->0 psi)	1000 l/min
Standard nominal flow rate pressurization 6->5 bar	450 l/min
Standard nominal flow rate exhaust air 6->5 bar	480 l/min
Flow direction	Non-reversible
Suitability for vacuum	yes
Nominal operating voltage DC	24 V
Permissible voltage fluctuations	+/- 25 %
Protection against direct and indirect contact	PELV
Certification	c UL us - Listed (OL)
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing authority	UL E322346
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Storage temperature	-20 °C...40 °C
Temperature of medium	5 °C...50 °C
Ambient temperature	5 °C...50 °C
Relative air humidity	0 - 90 %
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Note on shock resistance	Static installation only permitted for assembly with H-rail.
Pneumatic connection 2	G1/8
Pneumatic connection 4	G1/8
Pilot air port 14	M5
Pneumatic connection 1	G3/8
Pneumatic connection 3	G3/8
Pilot exhaust air port 84	M7
Venting hole connection	M7