Energy efficiency module MSE6-C2M-5000-FB44-D-RG-BAR-AMI-AGD

FESTO

Part number: 8157909



General operating condition

Data sheet

Series MSE Mounting position Horizontal **/- 5° Wavier function 2/2, open, monostable Reset method Mechanical spring Operating pressure 0.5 MPa 1.1 MPa Operating pressure 7.25 psi 159.5 psi Pressure regulation range MPa Pressure regulation range MPa 2.5 bar 10 bar Pressure regulation range psi 36.25 psi 145 psi Max. pressure hysteresis 0.03 MPa Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 4.35 psi Standard nominal flow rate Duty cycle 100% Max. current consumption 2.0.26 A Logic max. current consumption 2.0.26 A South Carrent Consumption 4.0.32 A Max. residual current 1 A Certification R CM compliance mark KC characters KC EMC CE marking (see declaration of conformity) As per EU ROK directive A	Feature	Value
Mounting position	Size	6
Valve function 2/2, open, monostable Reset method Mechanical spring Operating pressure 0.5 MPa 11 MPa Operating pressure 5 bar 11 MPa Operating pressure 7.2.5 psi 159.5 psi Pressure regulation range MPa 0.25 MPa 1 MPa Pressure regulation range psi 36.25 psi 145 psi Max. pressure hysteresis 0.3 MPa Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 4.35 psi Standard nominal flow rate 7000 l/min Duty cycle 100% Max. load current consumption 2.0.26 A Logic max. current consumption 2.0.33 A Max. residual current 1 A Certification RCM compliance mark KC characters KC Emarking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication not possible LABS (PWIS) conformity VDMA24364-B1/B2-L Tienperature OPC To UK consolidated on the product weight UFCS With plug socket With plug socket OPC 50 °C Degree of protection 5-pin	Series	MSE
Reset method Mechanical spring Operating pressure Operating pressure Operating pressure Sbar11 bar Operating pressure 72.5 psi 159.5 psi Pressure regulation range MPa O.25 MPa 1 MPa Pressure regulation range MPa O.25 MPa 1 MPa Pressure regulation range 2.5 bar 10 bar Pressure regulation range psi 36.25 psi 145 psi Max. pressure hysteresis O.33 MPa Max. pressure hysteresis O.3 bar Max. pressure hysteresis A.35 psi Standard nominal flow rate Duty cycle 100% Max. load current consumption Logic max. current consumption 40.32 A Max. residual current 1 A Certification RC dearacters KC EMC CE marking (see declaration of conformity) As per EU RMC directive As per EU BMC directiv	Mounting position	Horizontal +/- 5°
Operating pressure Operating pressure Operating pressure S bar 11 bar Operating pressure 7.2.5 psi 159.5 psi Pressure regulation range MPa Pressure regulation range MPa 2.5 bar 10 bar Pressure regulation range psi 36.25 psi 145 psi Max. pressure hysteresis 0.03 MPa Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 4.35 psi Standard nominal flow rate Tooo I/min Duty cycle 100% Max. load current consumption 40.32 A Max. residual current 1 A Certification R CM compliance mark KC characters KC Emarking (see declaration of conformity) As per EU EMC directive As per EU RNHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media UABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C -10	Valve function	2/2, open, monostable
Operating pressure Operating pressure Operating pressure 72.5 psi 159.5 psi Pressure regulation range MPa 0.25 MPa 1 MPa Pressure regulation range psi 36.25 psi 145 psi Max. pressure hysteresis 0.03 MPa Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 4.35 psi Standard nominal flow rate Duty cycle 100% Max. load current consumption 20.26 A Logic max. current consumption 40.32 A Max. residual current 1 A RCM compliance mark KC characters KC Emarking (see declaration of conformity) As per EU EMC directive As per EU RMC directive As per EU RMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication not possible UABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O°C 50 °C With plug socket Ambient temperature O°C 50 °C Product weight Electrical connection	Reset method	Mechanical spring
Operating pressure 7.2.5 psi 159.5 psi Pressure regulation range MPa 0.25 MPa 1 MPa Pressure regulation range MPa 0.25 MPa 1 MPa Pressure regulation range psi 36.25 psi 145 psi Max. pressure hysteresis 0.03 MPa Max. pressure hysteresis 4.35 psi Standard nominal flow rate Duty cycle 100% Max. load current consumption 4.032 A Max. certification KC characters KC EMC CE marking (see declaration of conformity) WKCA marking (see declaration of conformity) To UK instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media UABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature Temporature Product weight Ambient temperature Product weight Electrical connection 2.5 bar 159.5 psi 0.25 MPa 1 MPa 2.5 bar 10 bar 1.4 Pasi 145 psi 0.25 MPa 145 psi 0.26 MPa 145 psi 0.27 MPa 145 psi 0.28 MPa 145 psi 0.29 MPa 145 psi 0.25 MPa 145 psi 0.26 MPa 145 psi 0.27 MPa 145 psi 0.28 MPa 145 psi 0.29 MPa 145 psi 0.25 MPa 145 psi 0.25 MPa 145 psi 0.25 MPa 145 psi 0.25 MPa 145 psi 0.26 MPa 145 psi 0.27 MPa 145 psi 0.28 MPa 145 psi 0.29 MPa 145 psi 0.20 MPa 145 psi 0.25 MPa 145 psi 0.25 MPa 145 psi 0.25 MPa 145 psi 0.25 MPa 145 psi 0.26 MPa 145 psi 0.27 MPa 145 psi 0.27 MPa 145 psi 0.28 MPa 145 psi 0.25 MPa 145 psi 0	Operating pressure	0.5 MPa 1.1 MPa
Pressure regulation range MPa 0.25 MPa 1 MPa 2.5 bar 10 bar Pressure regulation range 2.5 bar 10 bar 36.25 psi 145 psi Max. pressure hysteresis 0.3 MPa Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 4.35 psi Standard nominal flow rate Duty cycle 100% Max. load current consumption 50.26 A Logic max. current consumption 80.32 A Max. residual current 1 A Certification 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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature 10°C 60°C Temperature of medium Operator medium O°C 50°C Product weight LElectrical connection 5-pin	Operating pressure	5 bar 11 bar
Pressure regulation range 2.5 bar 10 bar Pressure regulation range psi 36.25 psi 145 psi Max. pressure hysteresis 0.3 MPa Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 4.35 psi Standard nominal flow rate 7000 l/min Duty cycle 100% Max. load current consumption \$0.26 A Logic max. current consumption \$0.32 A Max. residual current 1 A Certification RCM compliance mark KC characters KC EMC CE marking (see declaration of conformity) As per EU EMC directive As per EU ROHS directive Max. per EU ROHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication not possible LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature 10°C 60°C Temperature of medium 0°C 50°C Product weight 4550 g Electrical connection 5-pin	Operating pressure	72.5 psi 159.5 psi
Pressure regulation range psi 36.25 psi 145 psi Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 4.35 psi Standard nominal flow rate 7000 l/min Duty cycle 100% Max. load current consumption 40.32 A Max. corrent consumption 80.32 A Max. residual current 1 A Certification KC characters KC EMC CE marking (see declaration of conformity) Max fine declaration of conformity) To UK instructions for EMC To UK RoHS instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature 10 °C 60 °C Temperature of medium Operation Degree of protection P65 With plug socket Anbient temperature 10 °C 50 °C Product weight Electrical connection 5-pin	Pressure regulation range MPa	0.25 MPa 1 MPa
Max. pressure hysteresis 0.3 bar Max. pressure hysteresis 4.35 psi Standard nominal flow rate 7000 l/min Duty cycle 100% Max. load current consumption \$0.26 A Logic max. current consumption RCM compliance mark KC characters KC EMC CE marking (see declaration of conformity) Max Red 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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature 10°C 60°C Temperature of medium O °C 50°C Product weight Electrical connection 5-pin	Pressure regulation range	2.5 bar 10 bar
Max. pressure hysteresis Max. pressure hysteresis 4.35 psi Standard nominal flow rate 7000 l/min Duty cycle 100% Max. load current consumption \$0.26 A Logic max. current consumption \$0.32 A Max. residual current 1 A Certification RCM compliance mark KC characters KC EMC CE marking (see declaration of conformity) WKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature 10 °C 50 °C Degree of protection Product weight 4550 g Electrical connection	Pressure regulation range psi	36.25 psi 145 psi
Max. pressure hysteresis Standard nominal flow rate Duty cycle 100% Max. load current consumption \$0.26 A Logic max. current consumption \$0.32 A Max. residual current 1 A Certification RCM compliance mark KC EMC CE marking (see declaration of conformity) As per EU EMC directive As per EU BNG directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Departion with oil lubrication not possible LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature 10 °C 60 °C Temperature of medium O °C 50 °C Product weight LEtectrical connection 4.35 psi 100% 100% 100% 100% 100% RCM conpliance 100% As per EU EMC directive As per EU EMC directive 10 UK CA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Operating medium Operating medium Operation with oil lubrication not possible VDMA24364-B1/B2-L Storage temperature 10 °C 50 °C For Degree of protection Sepin	Max. pressure hysteresis	0.03 MPa
Standard nominal flow rate Duty cycle 100% Max. load current consumption \$0.26 A Logic max. current consumption \$0.32 A Max. residual current 1 A Certification RCM compliance mark 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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature Temperature of medium O °C 50 °C Degree of protection IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight Electrical connection	Max. pressure hysteresis	0.3 bar
Duty cycle Max. load current consumption so.26 A Logic max. current consumption so.32 A Max. residual current 1 A Certification RCM compliance mark 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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O °C 50 °C Degree of protection IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight Electrical connection 5-pin	Max. pressure hysteresis	4.35 psi
Max. load current consumption so.26 A Logic max. current consumption so.32 A Max. residual current 1 A Certification RCM compliance mark 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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Depration with oil lubrication not possible LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature 10 °C 60 °C Temperature of medium Degree of protection IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight Electrical connection 5-pin	Standard nominal flow rate	7000 l/min
Logic max. current consumption \$0.32 A Max. residual current 1 A Certification RCM compliance mark 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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O °C 50 °C Product weight LEctrical connection \$5-pin	Duty cycle	100%
Max. residual current Certification RCM compliance mark 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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O °C 50 °C Degree of protection IP65 With plug socket Ambient temperature O °C 50 °C Product weight Electrical connection 5-pin	Max. load current consumption	≤0.26 A
RCM compliance mark 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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O °C 50 °C Degree of protection IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight Electrical connection F-pin	Logic max. current consumption	≤0.32 A
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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication not possible LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O °C 50 °C IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight Electrical connection 5-pin	Max. residual current	1 A
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 Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O °C 50 °C Degree of protection P65 With plug socket Ambient temperature 0 °C 50 °C Product weight 4550 g Electrical connection Storage temperature 5-pin	Certification	RCM compliance mark
As per EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Degration with oil lubrication not possible VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O °C 50 °C Degree of protection IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight 4550 g Electrical connection 5-pin	KC characters	KC EMC
To UK RoHS instructions Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O °C 50 °C Degree of protection IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight 4550 g Electrical connection Sommars and pilot media Operation with oil lubrication not possible VDMA24364-B1/B2-L -10 °C 60 °C -10 °C 50 °C	CE marking (see declaration of conformity)	· ·
Information on operating and pilot media Operation with oil lubrication not possible VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium O °C 50 °C Degree of protection IP65 With plug socket Ambient temperature O °C 50 °C Product weight 4550 g Electrical connection Special connection Degree of protection Special connection Operation with oil lubrication not possible VDMA24364-B1/B2-L -10 °C 60 °C -10 °C 50 °C	UKCA marking (see declaration of conformity)	
LABS (PWIS) conformity VDMA24364-B1/B2-L Storage temperature -10 °C 60 °C Temperature of medium 0 °C 50 °C Degree of protection IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight 4550 g Electrical connection 5-pin	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Storage temperature -10 °C 60 °C Temperature of medium 0 °C 50 °C Degree of protection IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight 4550 g Electrical connection 5-pin	Information on operating and pilot media	Operation with oil lubrication not possible
Temperature of medium O °C 50 °C Degree of protection IP65 With plug socket Ambient temperature O °C 50 °C Product weight 4550 g Electrical connection 5-pin	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Degree of protection IP65 With plug socket Ambient temperature 0 °C 50 °C Product weight 4550 g Electrical connection 5-pin	Storage temperature	-10 °C 60 °C
With plug socket Ambient temperature 0 °C 50 °C Product weight 4550 g Electrical connection 5-pin	Temperature of medium	0 °C 50 °C
Product weight 4550 g Electrical connection 5-pin	Degree of protection	In the
Electrical connection 5-pin	Ambient temperature	0 °C 50 °C
=	Product weight	4550 g
Tribit basii bati	Electrical connection	5-pin AIDA push-pull
Pneumatic connection 1 G1/2	Pneumatic connection 1	G1/2

Feature	Value
Pneumatic connection 2	G1/2
Seals material	NBR
Housing material	Die-cast aluminum
Covering material	PA-reinforced
Cover material	PA-reinforced
Fieldbus interface	2x RJ45 push-pull socket, AIDA
Operating voltage range DC electronics/sensors	18 V 30 V
DC load voltage operating voltage range	21.6 V 28.8 V
Reverse polarity protection	for operating voltage connections
Displayable unit(s)	kPa
	l/min m3 mbar psi scf scfm
Flow measuring range start value	50 l/min
Flow measuring range end value	5000 l/min
Accuracy of flow rate	± (3% o.m.v. + 0.3% FS)
Pressure measuring range initial value	0 MPa
Pressure measuring range initial value	0 bar
Pressure measuring range initial value	0 psi
Pressure measuring range end value	1.4 MPa
Pressure measuring range end value	14 bar
Pressure measuring range end value	203 psi
Accuracy in ± % FS	3 %FS
No. of inputs	2
Input switching logic	PNP (positive switching)
No. of outputs	2
Switching logic at outputs	PNP (positive switching)
Max. power supply per channel	1 A (12 W lamp load)