

P84F 3/2 Control Valve Excelon® Plus Modular System

- Port size: 3/8" to 3/4" (ISO G/PTF)
- Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- High forward flow capacity
- High flow dump facility
- Variable snap adjustment
- Fast exhausting
- Solenoid and air pilot options



Technical data

Medium:

Compressed air only

Maximum supply pressure:

145 psi (10 bar)

Minimum operating pressure:

43 psi (3 bar). Air Pilot pressure must be equal to or greater than the supply pressure.

Port size:

G3/8, G1/2, G3/4,
3/8 PTF, 1/2 PTF, 3/4 PTF

Flow:

108 scfm (51 dm³/s)
at port size 1/2"
Full flow P1 to P2 @ 91 psi
(6.3 bar) inlet, with 7 psi
(0.5 bar) pressure drop
P2 to P3 = 138 scfm (65 dm³/s)

Ambient/Media temperature:

-4 ... +149°F (-20 ... +65°C)
Air supply must be dry enough
to avoid ice formation at
temperatures below +35°F (+2°C).

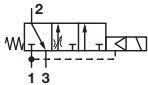
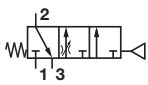
Electrical details for solenoid operators:

Voltage tolerance: -10%/+15%
Rating: 100% continuous duty
Inlet orifice: 0.8mm
Electrical connection:
15mm DIN EN 175301-803
(DIN 43 50) Table C
Manual override: Shrouded
push button, spring return
Protection class: IP65 with
sealed plug (ISO 6952) NEMA 4
Materials: PP5 (body), NBR (seals)

Materials:

Body: Aluminum
End Caps: Aluminum
Body covers: ABS
Elastomers: NBR
Valve: Brass
Air Pilot: Aluminum

Standard models

Symbol	Port Size (PTF)	Actuation/return	Voltage	Exhaust Port (PTF)	Weight lbs (kg)	Model
	3/8	Solenoid/spring	24 VDC	1/2	2.34 (1.06)	P84F-3AT-PFA
	1/2	Solenoid/spring	24 VDC	1/2	2.34 (1.06)	P84F-4AT-PFA
	3/4	Solenoid/spring	24 VDC	1/2	2.34 (1.06)	P84F-6AT-PFA
	3/8	Air/spring	NA	1/2	2.34 (1.06)	P84F-3AA-NNN
	1/2	Air/spring	NA	1/2	2.34 (1.06)	P84F-4AA-NNN
	3/4	Air/spring	NA	1/2	2.34 (1.06)	P84F-6AA-NNN

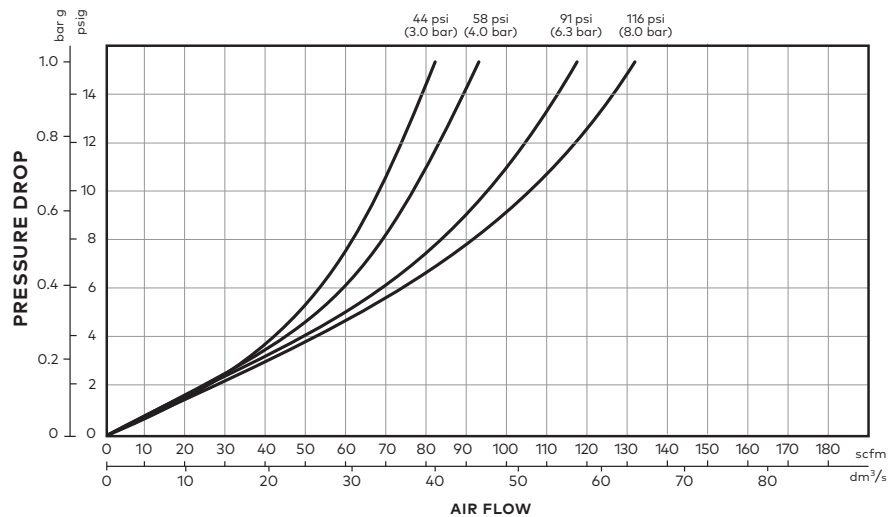
Option selector

Function	Substitute	P84F-★★★★-★★★★		Connector	Substitute
Smooth Start/ Dump Valve	F			With connector	A
Port Size	Substitute			none	N
3/8"	3			Solenoid	Substitute
1/2"	4			110/120 VAC	A
3/4"	6			220/240 VAC	B
Thread Form	Substitute			24 VDC	F
PTF	A			none	N
ISO G	G			Solenoid Operator	Substitute
Operator	Substitute			Non-Locking push button	P
Air Pilot	A			none	N
Solenoid Operated	T				

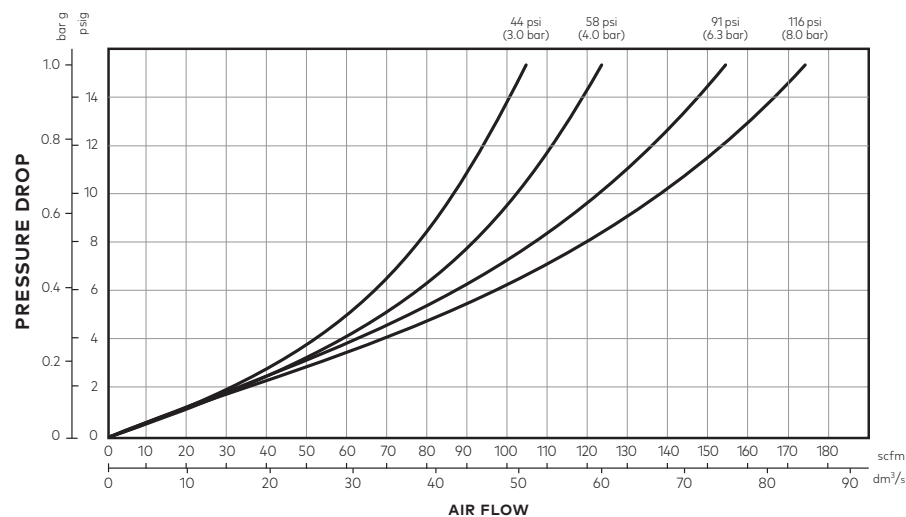
Performance characteristics

Flow

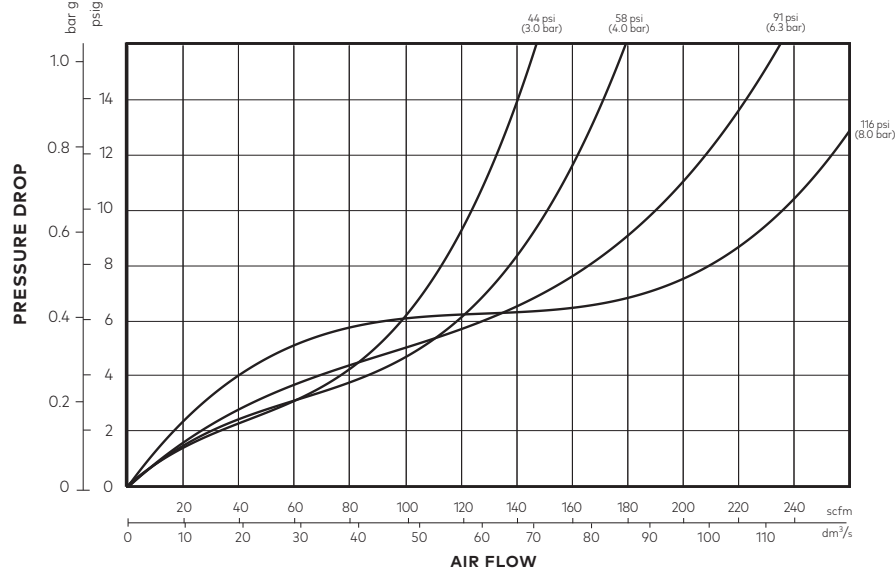
Port size: 3/8"



Port size: 1/2"

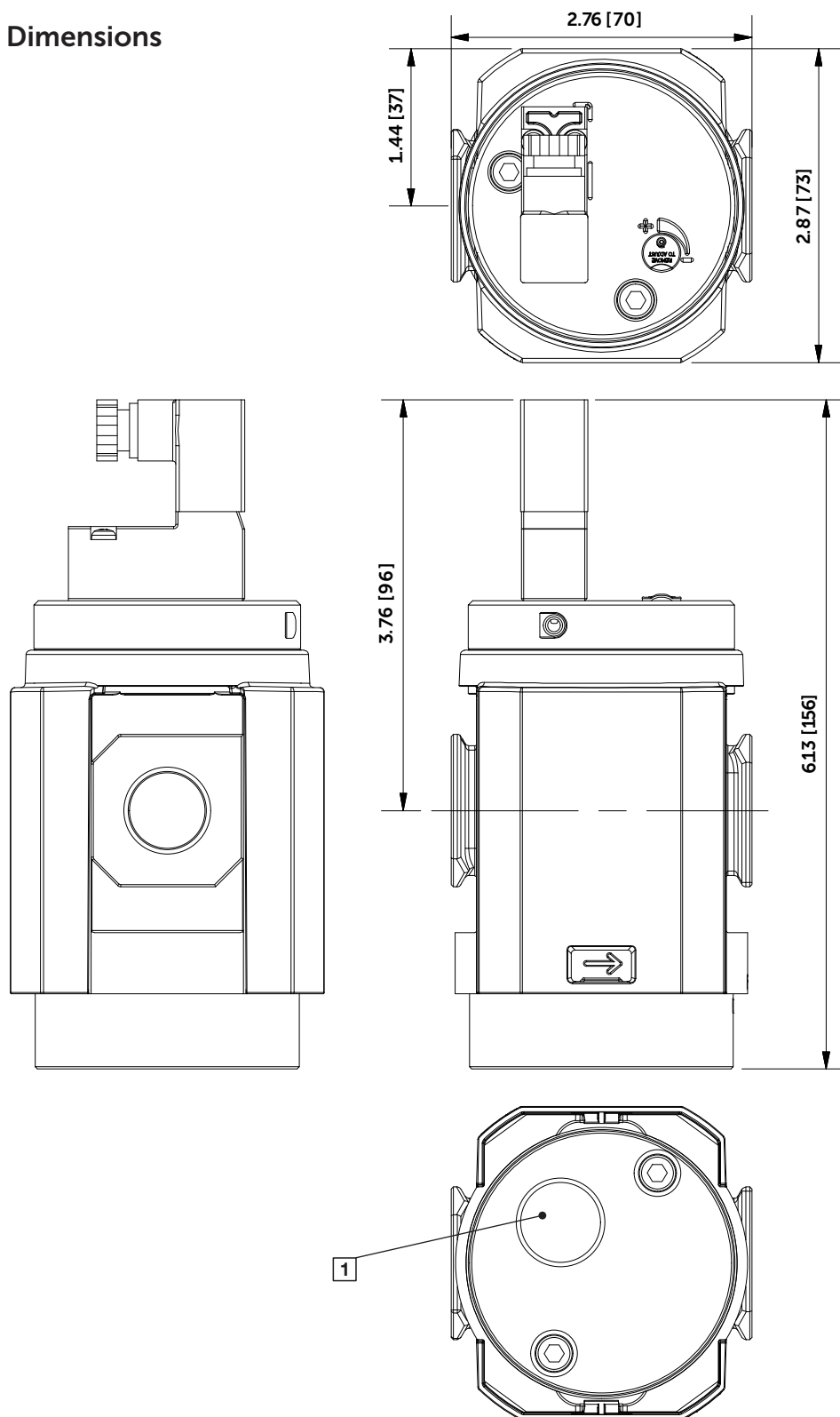


Port size: 3/4"





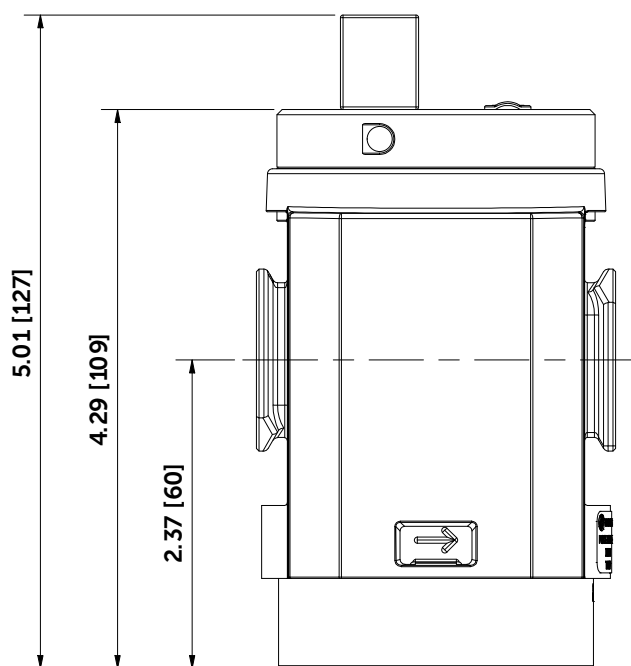
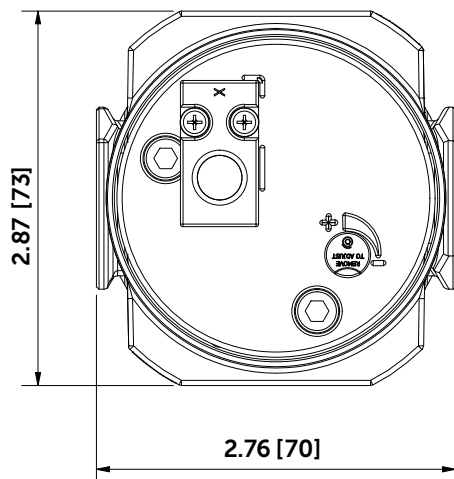
Dimensions



1 1/2" exhaust port (NPT or ISO G)

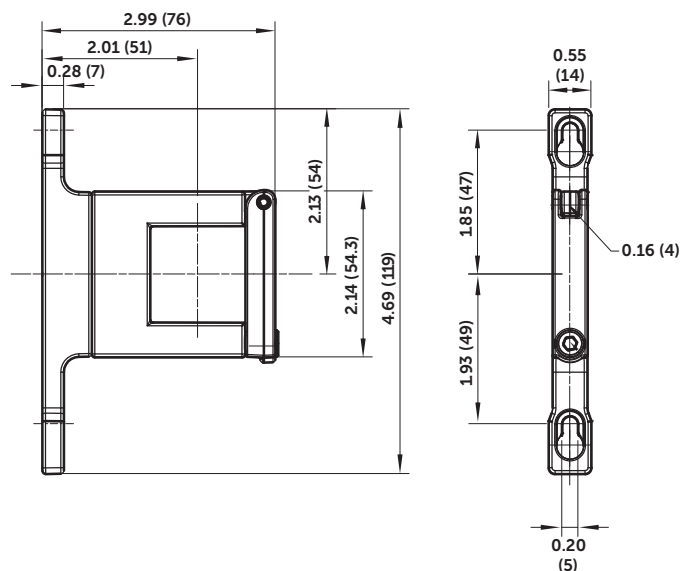


Air Pilot Operator

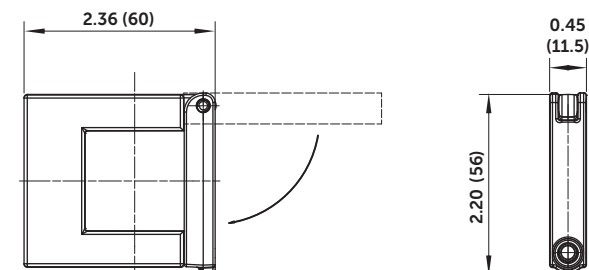




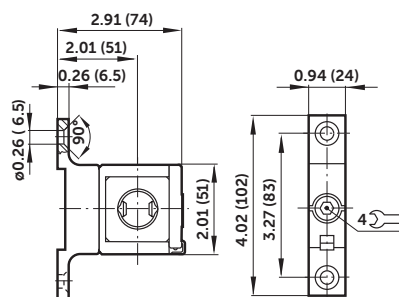
Quikclamp® with wall bracket



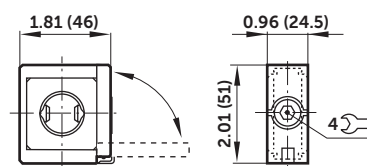
Quikclamp®



Hybrid-Quikclamp® with wall bracket

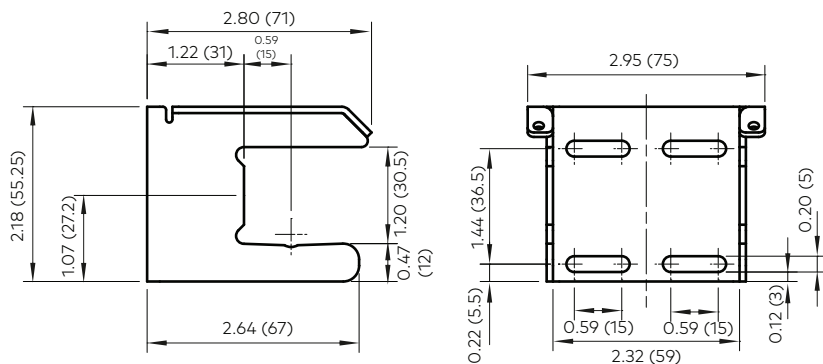


Hybrid-Quikclamp®

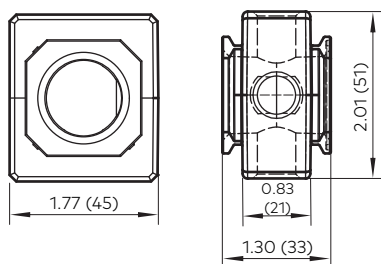




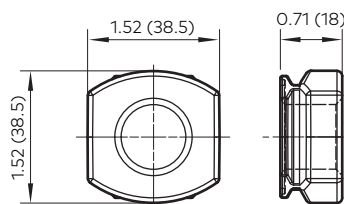
Mounting bracket



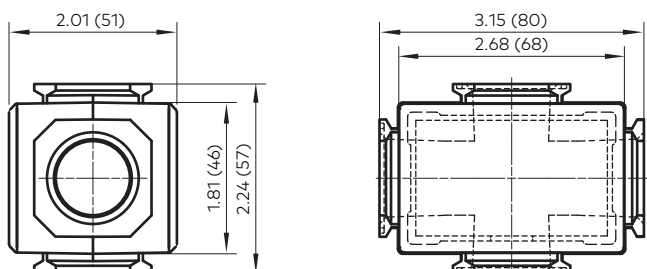
Pressure sensing block



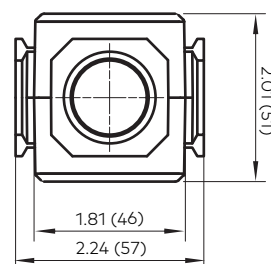
Pipe adaptor



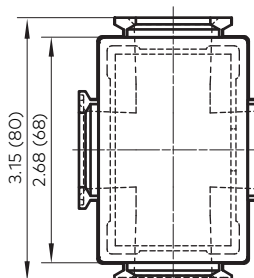
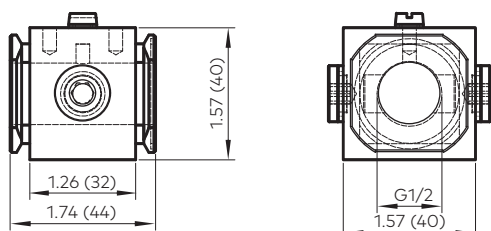
Full flow porting block horizontal



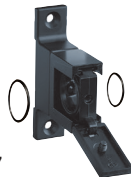
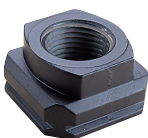
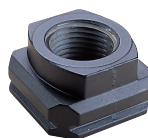
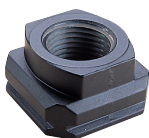
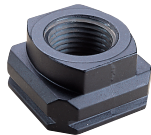
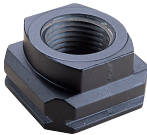
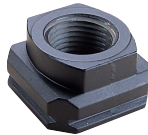
Full flow porting block vertical



Porting block for 18D pressure switch



Accessories

Quikclamp®  Page 7 840014-51KIT	Quikclamp® with bracket assembled  Page 7 840014-52KIT	Hybrid Quikclamp® *1  Page 7 840014-61	Hybrid Quikclamp® with bracket assembled *1  Page 7 840014-62	Wall mounting bracket  Page 8 840024-50KIT
*1) To connect new Excelon Plus to Excelon 74/73 units. Having the same hole centers as 74 series mounting bracket. A Quikclamp adds 13.6 mm to the overall width of a combination unit				
Full flow porting block 3/4 PTF  Page 8 840028-68KIT	Full flow porting block G3/4  Page 8 840028-69KIT	Full flow porting block 3/4 PTF  Page 8 840028-50KIT	Full flow porting block G3/4  Page 8 840028-53KIT	
Pressure sensing block 1/4 PTF  Page 8 840016-50KIT	Pressure sensing block G1/4  Page 8 840016-51KIT	Port Adaptors 3/8 PTF  Page 8 840015-02KIT	Port Adaptors 1/2 PTF  Page 8 840015-03KIT	Port Adaptors 3/4 PTF  Page 8 840015-04KIT
Port Adaptors G3/4  Page 8 840015-12KIT	Port Adaptors G3/8  Page 8 840015-10KIT	Port Adaptors G1/2  Page 8 840015-11KIT	Air Pilot Operator 1/8 PTF  840623-50KIT	Air Pilot Operator 1/8 ISO G  840623-51KIT
Heavy duty muffler, 1/2" NPT male thread, brass wire element  MB004A	Heavy duty muffler, R1/2 male thread, brass wire element  MB004B			

Connection cable with plug, LED and M12 Female



Description	Cable length ft. (m)	Model
PUR-Cable; M12/valve type C DIN connector	1.97 (0.6)	NC-DINCA-123MS-A
	3.28 (1)	NC-DINCA-123MS-1
	6.56 (2)	NC-DINCA-123MS-2
	16.40 (5)	NC-DINCA-123MS-5

Plug with with moulded cable and indicator



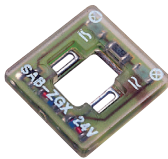
Voltage	Cable length ft. (m)	Model
12 - 24 V a.c. / d.c	3.28 (1)	V10014-D01
12 - 24 V a.c. / d.c	9.84 (3)	V10014-D03
110 V a.c. / d.c.	3.28 (1)	V10015-D01
110 V a.c. / d.c.	9.84 (3)	V10015-D03
220 V a.c. / d.c	3.28 (1)	V10016-D01
220 V a.c. / d.c	9.84 (3)	V10016-D03

Plug with moulded cable



Description	Cable length ft. (m)	Model
3 pin plug with moulded cable	3.28 (1)	V10013-D01
3 pin plug with moulded cable	9.84 (3)	V10013-D03

Light Emitting Seals, 15mm form C



Description	Model
Light Emitting Seals Circuit A (12 - 24 V d.c.)	V10037-E13
Light Emitting Seals Circuit B (110 - 120 V a.c.)	V10037-E18
Light Emitting Seals Circuit B (220 - 240 V a.c.)	V10037-E19

Plug with cable gland and indicator



Description	Model
Plug with cable gland and indicator 12-24 V a.c. / d.c., c/w LED / VDR	V10012-D13
Plug with cable gland and indicator 110 V a.c. / d.c., c/w LED / VDR	V10012-D18
Plug with cable gland and indicator 220 V a.c. / d.c., c/w LED / VDR	V10012-D19

M12 Adaptor Top - MSUP Valve Plug Form C 8MM



V13980-E01

M12 Adaptor Rear - MSUP Valve Plug Form C 8MM



Plug with cable gland



V10027-D00

Voltage rating and spare coils

	Voltage	Power	Replacement
	24 VDC	1.2 W	840650-50KIT
	110 VAC	1.5 VA	840650-51KIT
	220 VAC	1.5 VA	840650-52KIT

Warning

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

Proposition 65: These products may contain chemicals known to the state of California to cause cancer, or birth defects, or other reproductive harm.