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Applicant : Eaton GmbH  
Controls Division-Europe  
Honsellstrasse 8  
77694 Kehl  
Germany

Application date : 94-01-12

Order number : 94.7159.01-KCS/LB

Subject: type test of water inlet  
valves.

Tradename : EATON  
Types : V...

Arnhem, February 17, 1994


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Manufacturer/factory-location:  
Eaton S.A.M., 17 Ave. du Pr. Hereditaire Albert,  
MC-98000 Monaco, Monaco PTE

Test requirements : K78B (based on EN 50084 and  
EN 60335, with amendment  
2, 5 and 6)

Conclusion : the products comply with the specified  
requirements.

Tested by : R.H. Hoveijn 

Checked by : H.R.M. Barends 

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RHH/MJH

1445-94

Products may only be provided with one of our approval marks if the relevant conditions have been fulfilled.

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Telephone (085) 56 91 11, Telex 45016 kema nl, Telefax (085) 51 58 05.

Product data:

tradename : EATON  
 types : V...  
 types : V48, V190, V180, V283, V290, V380, V393 and SAD-E (this is a V... type valve, simply with two valves mounted hydraulically in series)  
 type reference : unique type  
 rated voltage : 12 V dc (with exception of the V48), 24 V dc, 110-120 V ac, 220-240 V ac (marking 230 V ac)  
 rated load : 12 V dc - 3 W  
                   24 V dc - 9.5 W  
                   110 - 220 V ac - 4 W  
                   220 - 240 V ac - 5/6 W  
 temperature limit : T60 and T85 for ac  
                           T60 for dc  
 class : Class II apply to insulation between the valves live part and water  
 terminals : connectorized terminals (rast 5) and tab-terminals (6.3 x 0.8 mm) not intended for the connection of external supply cables or flexible cords  
 description : as single-, double-, triple and fourfold outlets with outlet angel 90° or 180°  
 design : for build-in purposes  
 pressure range : 0.2 to 10 bar  
 markings : are shown on the body

Further data:

Temperature ranges and corresponding valves.

rated voltage	Tu	Tm	duty cycle	colour
220-240 V ac	25	90	100 per.	V...series beige
	85	25	100 per.	
	60	90	3mn/5mn	
220-240 V ac	25	90	100 per.	V...series and SAD-E brown or beige
	60	25	100 per.	
	60	90	3mn/5mn	

Tu = WATER

Tm = AMBIENT

110-120 V ac	25 60 60	90 25 90	100 per. 100 per. 3mm/5mm	V...series and SAD-E black
12 V dc	60	25	100 per.	V...series and SAD-E green (not V48...)
24 V dc	60	25	3mm/5mm	V...series and SAD-E yellow

Nomenclature breakdown

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V . . . . .

- 1) basic model type reference
- 2) blank = standard, AI = threaded outlets
- 3) number of outlets, 1 = single, 2 = double, 3 = triple and 4 = quadruple
- 4) outlet angle with respect to inlet, 9 = 90, 8 = 80 and 4 way = 180 only
- 5) blank = standard, A = akkurat (rast 5 + fixation)
- 6) unique reference: 000 - 999
- 7) edition

1) 2)3)

SAD-E . . .

- 1) basic model type reference
- 2) unique type reference: 000 - 999
- 3) edition

Variants within the scope of the approval

- The outlet diameter can be 10 mm (smooth), 13 mm (smooth) or threaded. The inlet can be threaded or smooth.
- The valves can be mounted hydraulically in series, with two separate coils. This product is referred as SAD-E. (the coils are the same as for the V...series)
- The colour of the valve body may be natural or red.
- The flow rate can be between 1 and 121/mn.
- The mounting of the terminals can be horizontal or vertical.

Remark

This report is also based on the Notification of Test Results ref. nos. CCA/SE 1631 and CCA/SE 1631A and replaces the test report no. 94.7021.01-KCS/LB, dated on 1994-01-23.