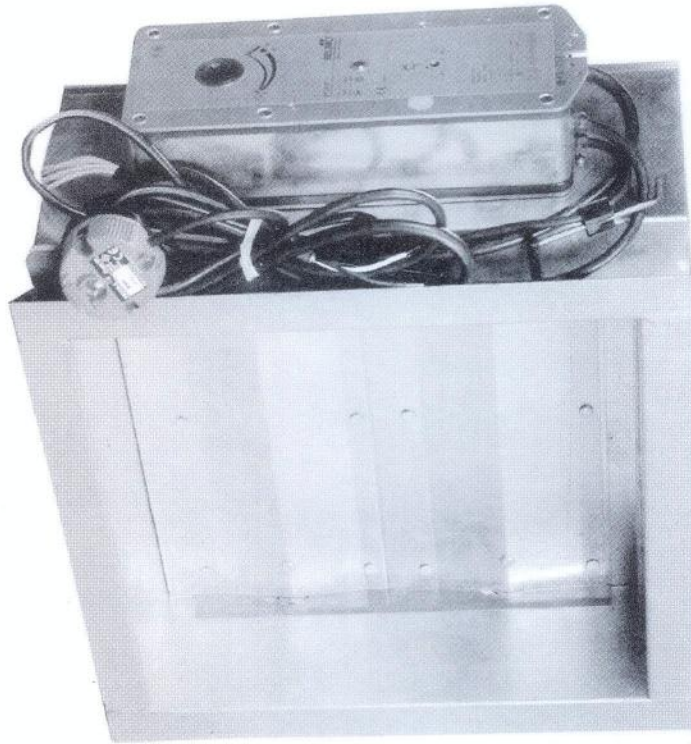


AIRTRON



CHAPTER - 08 (B) UL555 CLASSIFIED

FD31, FD35 and FD60 FIRE DAMPERS



AIRTRON L.L.C.

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As Airtron are continuously improving the products, they reserve the right to make changes without notice.

Electrical Data	Nominal Voltage	AC 24 V, 50/60 Hz / DC 24V	
	Nominal Voltage range	AC 19.2 ... 28.8V / DC 21.6...28.8 V	
	Power consumption	motoring	7W@ nominal torque
		holding	2W
		for wire sizing	10 VA / I _{max} . 8.3A @5 ms
	Auxiliary switch	2 x 1 SPDT	
	Contact rating (contacts gold plate on silver)	1 mA ... 6A (3A), DC 5 V ...AC 250V□	
	Switching points	5°↙ /80°↙	
	Connecting cable motor		1m, 2 x 0.75 mm ² (halogen-free)
		auxiliary switch	1m, 6 x 0.75 mm ² (halogen-free)
Functional data	Torque	motor	Min. 18Nm
		spring-return	Min. 12Nm
	Direction of rotation		Selected by mounting L/R
	Angle of rotation		Max. 95°↙ (incl. 5°↙ spring pretensioning)
	Running time	motor	140 s
		spring-rturn	-16 s (tamb = 20°C)
	Sound power level	motor	Max. 45 dB (A)
		spring-rturn	-62 dB (A)
	Damper rotation		From-fit 12mm
			(10 with adapter supplied)
	Position indication		Mechanical with pointer
	Service life		Min. 60`000 safe positions
	Safety	Protection class	III Safety extra-low voltage
Degree of protection		IP54 in all mounting positions	
EMC		CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC	
Mode of operation		Type 1.AA.B (according to EN60730-1)	
Rated impulse voltage		0.8 kV (according to EN60730-1)	
Control pollution degree		3 (according to EN60730-1)	
Ambient temperature range		normal duty	-30 ...+50°C
		Safety duty	The safe position will be attained up to max. 75°C When initiated by a thermal trip
Non-operating temperature			-40 +80°C
Ambient humidity range			According to EN 60730-1
Maintenance		Maintenance-free	
Dimensions/weight	Dimensions	See «Dimensions» on page 2	
	Weight	Approx. 2`800 g	



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DAMPER TYPE	BLADE MATL (NOM.)	FRAME MATL (NOM.)	LINKAGE	AXLES	BEARINGS	MOUNTING	FUSIBLE LINK	FIRE RATING
FD31	Triple-V galv. steel 16 gage (1.6) 6" (152) wide max.	5" x 1" x 16 ga. (127 x 25x 1.6) galv. steel hat channel with flexible compression type stainless steel jamb seals	Concealed in frame	1/2" (13) plated steel hex	Bronze oilite slecve pressed into frame	Vertical or horizontal	UL listed. 165°F (74°C) std. 212° F and 285°F (100°C or 141°C) avail- able at no additional cost	3 hour UL Fire damper label per UL Std. 555.
FD35	Triple-V galv. steel 16 gage (1.6) 6" wide approx. 6" (152) on center	5" x 1" x 16 ga. (127 x 25x 1.6) galv. steel hat channel	Concealed in frame	1/2" (13) plated steel hex	Stainless steel pressed into frame	Vertical or horizontal	UL listed. 165°F (74°C) std. 212° F and 285°F (100°C or 141°C) avail- able at no additional cost	1-1/2 hour UL Fire damper label per UL Std. 555. California State Fire Marshal Classification as 1-1/2 hour fire damper for walls per listing no 3225-245:005
FD60	Airfoil-shaped dbl. skin, 14 gage (2) equiv, thickness. max. 6" (152) wide	5" x 1" x 16 ga. (127x 25x 1.6) galv. steel hat channel	Concealed in frame	1/2" (13) plated steel hex	Stainless steel pressed into frame	Vertical or horizontal	UL listed. 165°F (74°C) std. 212° F and 285°F (100°C or 141°C) avail- able at no additional cost	1-1/2 hour UL Fire damper label per UL Std. 555. California State Fire Marshal Classification as 1-1/2 hour fire damper for walls per listing no 3225-245:102



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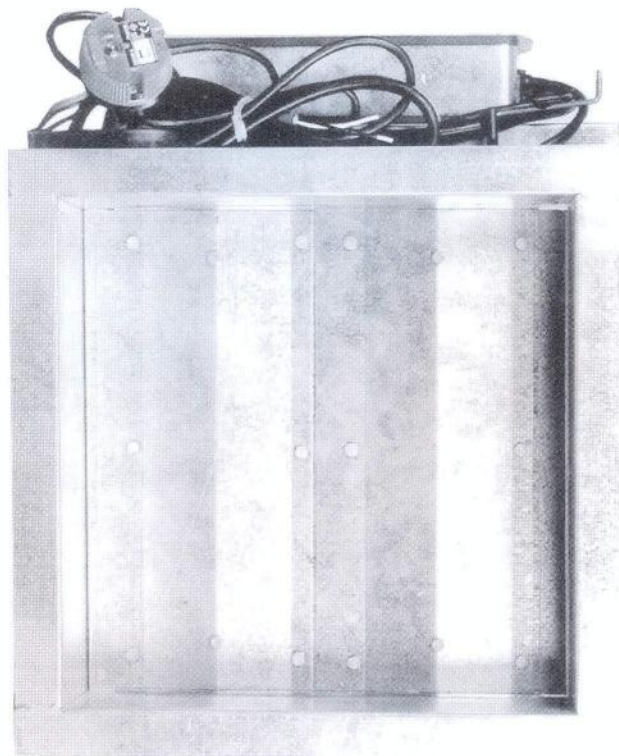
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Mode of operation The actuator moves the damper to its normal working position while tensioning the return spring at the same time. If the power supply is interrupted, the energy stored in the spring moves the damper back to its safe position.

Thermo-electric tripping device
BAE72B-S Thermal trip Tf1 operates if the ambient temperature exceeds 72°C.
Replaceable thermal trip Tf2/Tf3 operates if the temperature inside the duct exceeds 72°C.
Tf1, Tf2 or Tf3 trips cause the power supply to be interrupted permanently so that it cannot be uncancelled.
The LED is lit when
- there is a supply voltage,
- the temperature fuses are OK and
- the test switch is not pressed.

Signalling Two microswitches with fixed settings are installed in the actuator for indicating the damper end positions.

Manual operation The position of the damper blade can be read off on a mechanical position indicator.
Without power supply, the damper can be operated manually and fixed in any required position.
Release of the locking mechanism can be achieved manually or automatically by applying the supply voltage.

Note

The function of the thermal trip and the test switch is only warranted if the actuator is connected to the power supply and has reached its operating position



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