Product data sheet 51.345

A44 W0...W2: Motorised actuator

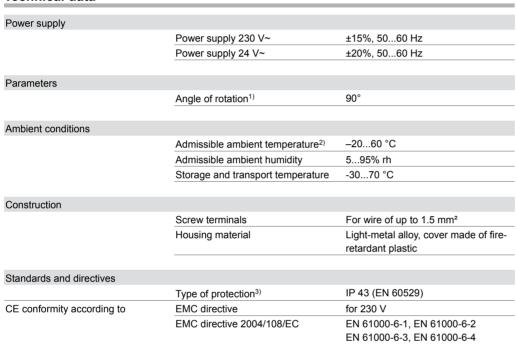
How energy efficiency is improved

Electric cut-off in end position to save energy

Features

- · Actuation of control units such as air dampers, gates, butterfly valves, etc. for controllers with a switching output (3-point)
- · Synchronous motor with limit switch
- · Maintenance-free gear unit
- · Positions the control unit to any intermediate position
- · Cable gland M20 × 1.5
- · Crank for manual adjustment





Overview of types

i Admissible damper surface area: the recommended admissible damper area applies to equal-sided, smooth-running air dampers

Туре	A44W0F001	A44W0F020	A44W1F001	A44W1F020	A44W2F001	A44W2F020
Torque (Nm)	25	25	30	30	30	30
Holding torque (Nm)	22	22	30	30	30	30
Running time for 90° (s)	30	30	60	60	120	120
Admissible damper surface area (m²)	8	8	10	10	10	10
Power consumption with 60 Hz	10.4 W	10.4 W	10.4 W	10.4 W	4.8 W	4.8 W
Leistungsauf- nahme_bei 50Hz_M	9.2 W	9.2 W	9.2 W	9.2 W	3.8 W	3.8 W

Angle of rotation of end shaft is adjustable from min. 30° to max. 320° by means of a switching cam (starting point is freely selectable). If a potentiometer is fitted: Observe angle of rotation of potentiometer









At temperatures under 0 °C, use heating resistor (accessory)

Type of protection IP 43 only in conjunction with M20 × 1.5 cable gland. Type of protection IP 55 with steel or aluminium cover (accessory) and M20 \times 1.5 cable gland

Product data sheet 51.345

Туре	A44W0F001	A44W0F020	A44W1F001	A44W1F020	A44W2F001	A44W2F020
Voltage	230 V~	24 V~	230 V~	24 V~	230 V~	24 V~
Weight (kg)	2.5	2.5	2.5	2.5	2.2	2.2

Accessories

- i Potentiometer with rigid coupling: obligatory for certain TÜV-approved burner control systems
- i Pluggable auxiliary change-over contacts: switching cam 180° ON or 180° OFF can be positioned at any point over the entire angle of rotation (360°)

0188614000 Fixing bracket for wall mountin 0274605000 Angled ball joint for clamping I	
0274605000 Angled ball joint for clamping I	ever with M10 nut
0294967000 Pivot pin for clamping lever	
UNG_037020500 Heating resistor 5 W, 230 V~	
0370205002 Heating resistor 5 W, 24 V~	
0370396000 3 insertable auxiliary change-o	over contacts, 10(2) A 250 V~
0370479000 Steel hood + manual adjuster,	hammer enamel finish RAL 1020
0370486000 Clamping lever, complete (incl	uding square hub)
0370493000 2 auxiliary contacts Min. load:	100 mA, 24 V~
0370628000 Adaptor plate including 4 M6 of	countersunk screws for replacing A33 W. with A44 W.
0370638000 Straight ball joint for clamping	lever with nut (M10)
0370715001 Cover made of die-cast alumin	nium with rubber seal, type of protection IP 55
0371290001 Cover, black, made of die-cas and scale, type of protection II	t aluminium with display window, rubber seal, position indicator > 55
0372460001 Cable screw fitting (plastic M2	0 × 1,5) incl. locking nut and seal
0370640001 Potentiometer 2000 Ω , 1.0 W	with friction coupling
0370640002 Potentiometer 130 Ω , 1.0 W w	ith friction coupling
0370640006 Potentiometer 1000 Ω , 1.0 W	with friction coupling
0370641001 Dual-operation potentiometer	130/2000 Ω, 1.0 W with friction coupling
0370641002 Dual-operation potentiometer	2000/2000 Ω, 1.0 W with friction coupling
0370641006 Dual-operation potentiometer	130/140 Ω, 1.0 W with friction coupling
0370644001 Rotation-angle cog set 90° or	180°, with coupling
0370644002 Rotation-angle cog set 120° o	r 150°, with coupling
0370645006 Potentiometer 1000 Ω , 1.0 W	with rigid coupling
0370645007 Potentiometer 5000 Ω , 1.0 W	with rigid coupling
0370646001 Rotation-angle cog set 90°, wi	thout coupling
0370646002 Rotation-angle cog set 120°, v	vithout coupling

- 0370479000: (steel hood + manual adjuster) olive yellow, hammer enamel finish RAL 1020

Description of operation

The control unit to be activated can be moved to any chosen intermediate position by closing the electrical circuit using terminals 1-2 or 1-3. The end shaft rotates in the anti-clockwise direction (viewing the end shaft from the actuator) when the power is applied to terminal 2. The reversible synchronous motor is switched off in the end positions by the limit switches, and the self-locking is then ensured by an integrated magnetic brake. When the crank handle is used, the neutral wire of the motor is interrupted by means of a switch.

Intended use

This product is only suitable for the purpose intended by the manufacturer, as described in the "Description of operation" section.

All related product documents must also be adhered to. Changing or converting the product is not admissible.

Engineering and fitting notes

The max. internal equipment for the actuator is: 2 change-over limit switches (standard), 5 auxiliary change-over contacts and 1 dual-operation potentiometer or 1 heating resistor.

Product data sheet 51.345

The angle of rotation of the end shaft is continuously adjustable between min. 30° and max. 320° by means of a switching cam. When a potentiometer is installed, the related angle of rotation of the end shaft depends on the selected rotation-angle cog set and must be considered when adjusting the limit switch. The end contacts and auxiliary change-over contacts are adjusted centrally on the switch tower, which has a direct mechanical connection to the end shaft.

The connection terminals for the auxiliary functions are located directly on the corresponding limit switches and auxiliary switches, or on the potentiometer (max. 1.5 mm²), and the earthing terminal is on the steel coverplate. The actuator is fixed via 4 M6 holes on the end shaft side. The motorised actuator can be fitted in any position.

Additional technical information

0370640*** Single-operation potentiometer 1.0 W 0370641*** Dual-operation potentiometer 1.0 W

0370644*** Rotation-angle cog set

0370640*** and 0370641***

	Single Ω	Dual Ω	
037064*001	2000	130/2000	
037064*002	130	2000/2000	
037064*003	100	100/100	
037064*004	200	1000/1000	
037064*005	500	200/200	
037064*006	1000	130/140	
037064*007	-	130/200	
037064*008	-	130/130	
037064*009	-	130/500	
037064*010	-	130/1000	
037064*011	-	130/5000	
037064*012	-	130/10000	
037064*013	-	1000/2000	

0370644***

	Angle
0370644001	90/180
0370644002	120/150
0370644003	135
0370644004	270
0370644005	320

Outdoor installation

The devices must also be protected from the weather if they are installed outside the building.

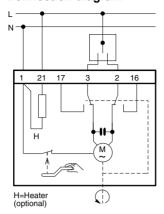
Disposal

When disposing of the product, observe the currently applicable local laws.

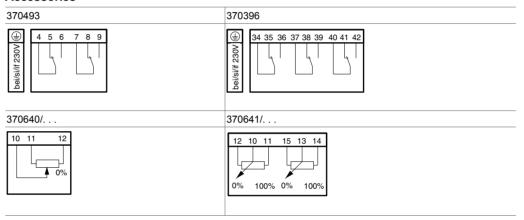
More information on materials can be found in the Declaration on materials and the environment for this product.

51.345 Product data sheet

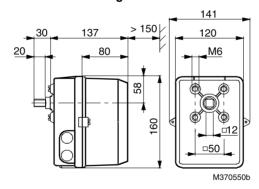
Connection diagram



Accessories



Dimension drawing



51.345 Product data sheet

Accessories

