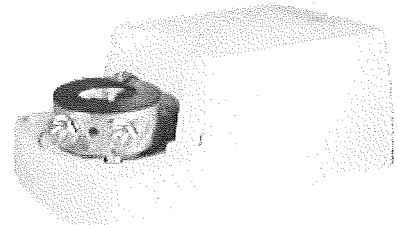


DAMPER / VALVE MOTORS 2 & 3 POINT

E08.. E16.. E24.. E32..

These motors can be fitted directly on to air damper shafts or remotely using linkage accessories in HVAC systems. They are also suitable for use on control valves. The rotary operation can be used to open and close dampers, valves etc.



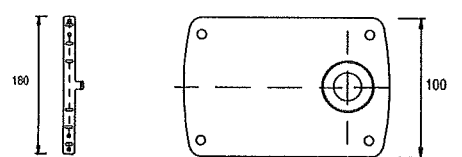
E08.. E16.. E24.. E32..

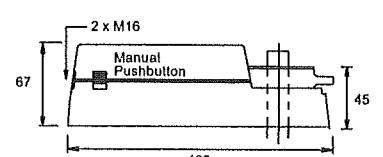
Up to 10 motors can be wired in parallel.
 Max. ambient -20/+50°C
 The motor stops automatically when the end positions are reached.
 Angle of rotation 0-90° adjustable
 Reversible position indication 0-10, 10-0
 Noise level 45dB Manual Override
 Supply : 24VAC ±20% 24VDC ±10% 230VAC ±10%
 24V=6.5VA 230V=6VA
 Enclosure Flammability = UL94-V0
***FOR WEATHERPROOF ENCLOSURES SEE SEPARATE DATA SHEET.**

Type	Supply 50/60Hz	Operation	Aux Switch 230VAC	Run Time Approx	Torque	Damper Area Approx	*Enclosure
E08-24	24VAC/DC	2 & 3 Point	–	30s	8Nm	2m	IP44
E08-24S	24VAC/DC	2 & 3 Point	2 x 3(1.5)A	30s	8Nm	2m	IP44
E08-230	230VAC	2 & 3 Point	–	30s	8Nm	2m	IP44
E08-230S	230VAC	2 & 3 Point	2 x 3(1.5)A	30s	8Nm	2m	IP44
E16-24	24VAC/DC	2 & 3 Point	–	80s	16Nm	4m	IP44
E16-24S	24VAC/DC	2 & 3 Point	2 x 3(1.5)A	80s	16Nm	4m	IP44
E16-230	230VAC	2 & 3 Point	–	80s	16Nm	4m	IP44
E16-230S	230VAC	2 & 3 Point	2 x 3(1.5)A	80s	16Nm	4m	IP44
E24-24	24VAC/DC	2 & 3 Point	–	125s	24Nm	6m	IP44
E24-24S	24VAC/DC	2 & 3 Point	2 x 3(1.5)A	125s	24Nm	6m	IP44
E24-230	230VAC	2 & 3 Point	–	125s	24Nm	6m	IP44
E24-230S	230VAC	2 & 3 Point	2 x 3(1.5)A	125s	24Nm	6m	IP44
E32-24	24VAC/DC	2 & 3 Point	–	140s	32Nm	8m	IP44
E32-24S	24VAC/DC	2 & 3 Point	2 x 3(1.5)A	140s	32Nm	8m	IP44
E32-230	230VAC	2 & 3 Point	–	140s	32Nm	8m	IP44
E32-230S	230VAC	2 & 3 Point	2 x 3(1.5)A	140s	32Nm	8m	IP44

SPECIAL ORDER ONLY

DIMENSIONS: Anti Rotation Bracket **DIRECT MOUNTING:** Shaft size - Round 10-20mm Square 10-16mm

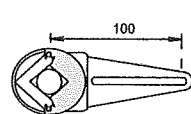




1 off M16 male to M20 female conduit adapter included.
2 off with Aux switch models.

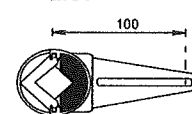
ACCESSORIES:

ZKH



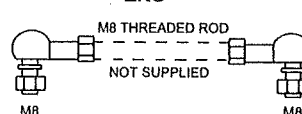
Motor Crank Arm

ZKA



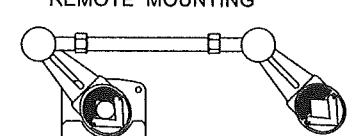
Damper Crank Arm

ZKG



Ball Joint

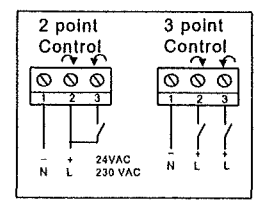
REMOTE MOUNTING



REQUIRES: 2 x ZKG 1 x ZKH 1 x ZKA

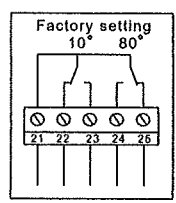
WIRING:

24 / 230 V



2 x Auxiliary switches
Adjustable 0-90°

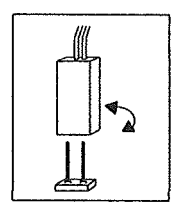
Auxiliary Switches



Example:
 Motor anti-clockwise
 21-22 closed at 10° and below
 Motor clockwise
 21-24 closed at 80° and above

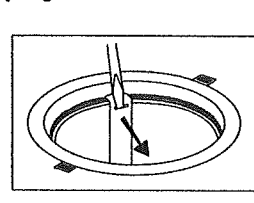
Manually set the motor to the required switching point & rotate the cam wheel just over the microswitch button. To set the second switching point repeat this using the second cam wheel.

Direction of Rotation



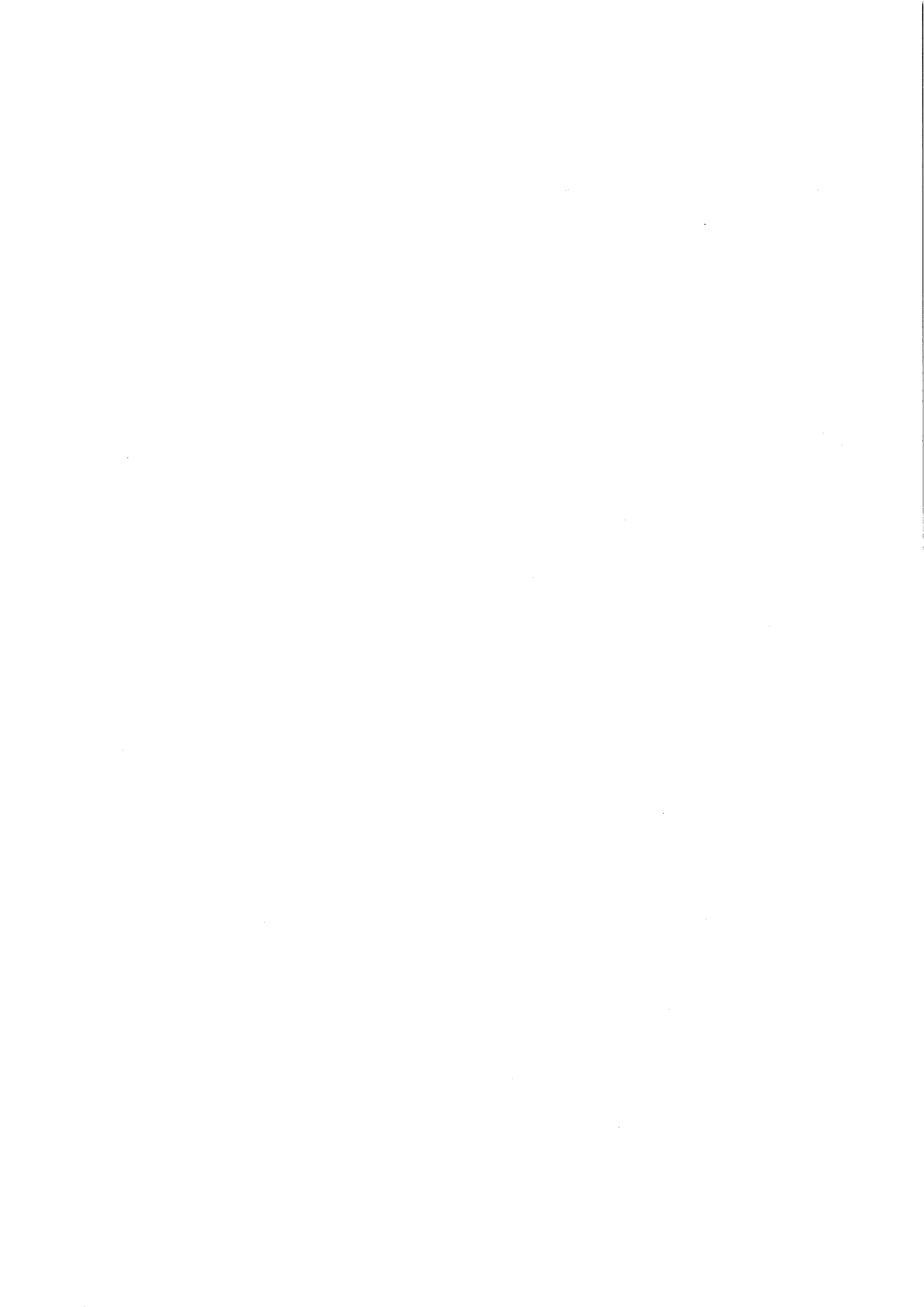
The direction of rotation is changed by reversing the polarity of the motor plug.

Adj angle of rotation between 0-90°



Rotation angle is adjusted by repositioning the adapter in 5 steps. The adaptor is released by pressing the locking clip on the underside of the actuator.

Latchable manual override.
No back voltage from supply terminals.
Auto re-start (230V motors) after manual adj.



ELECTRO CONTROLS

E...24M(S)

STETIGE Stellantriebe

Fig.1 Stellantrieb ohne Schutzdeckel

- a Hilfsschalter bei 10°
- b Hilfsschalter bei 80°
- c Motorstecker
- d Microschalter
- e Handbetätigung
- f Adapter für: Rundachsen von 10...20 mm Ø
- Vierkantachsen von 10...16 mm
- g1 Drehwinkelbegrenzung
- g2 Adapter-Entriegelung
- h Deckelfixierschraube

Fig. 2 Anschluss-Schema

- i Stetige Steuerung
- k Signaldaten
- m Parallelschaltung
- n Hilfsschalter

Fig. 3 Abmessungen (mm)

Fig. 4 Montageanleitung

ELECTRO CONTROLS

E...24M(S)

Actuators MODULATING

Fig.1 Actuator open

- a Auxiliary switch for 10°
- b Auxiliary switch for 80°
- c Motor-plug
- d Microswitch
- e Manual operation
- f Adapter for: Round spindles from 10...20 mm Ø
- Square spindles from 10...16 mm
- g1 Angle of rotation limiting
- g2 Releasing the adapter
- h Cover screw

Fig. 2 Wiring diagram

- i Modulating control
- k Signal data
- m Parallel connection
- n Auxiliary switches

Fig. 3 Dimensions (mm)

Fig. 4 Mounting instructions

ELECTRO CONTROLS

E...24M(S)

Servomoteurs MODULANT

Fig.1 Servomoteur sans couvercle

- a Contact auxiliaire de 10°
- b Contact auxiliaire de 80°
- c Connecteur du moteur
- d Microrupteur
- e Commande manuelle
- f Adaptateur pour: Axe rond de 10...20 mm Ø
- Axe carré de 10...16 mm
- g1 Limitation de l'angle de rotation
- g2 Déverrouillage de l'adaptateur
- h Vis de fixation du couvercle

Fig. 2 Schema de raccordement

- i Commande progressive
- k Spécification du signal
- m Raccordement en parallèle
- n Contacts auxiliaires

Fig. 3 Dimensions (mm)

Fig. 4 Instruction de montage

