

Gear rack actuators

MAGRACK CK

Description/function

The CK type electric Magrack gear rack actuator is an actuator designed especially for utilisation on large dome lights, windows and for the RWA sector. The actuators can be used in single or tandem versions. This system is extremely reliable and can be used for a multitude of tasks. The actuator motors can be supplied in single-phase alternative current (AC) or direct current (DC). Two different gears make possible different forces and speeds. Power limiters ensure precise deactivation of the actuators. Operations in multiple series connections are possible. The motor housing is made from high quality aluminium and withstands high temperatures. The fixing parts fall under the scope of supply. The articulated section and mounting bracket within the scope of supply for the gear rack.

Electrical connections

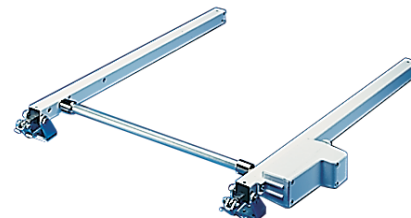
Only trained staff may undertake the processes of setting into motion and connecting up to power sources. All valid specifications must be observed. Connections to the power supply are made using the 4x1 mm² connection cord (AC) or 2x1 mm² connection cord (DC), following the diagram shown overleaf.

Assembly

The special installation instructions in the operating instructions must be observed. The actuators must be installed using the fixing parts provided (see accessories). Actuators and fixing supports must be flush. No lateral forces may act on the rack gear. Fine adjustments for the closing points should be undertaken at the eye bolt. Safe functions must be checked and guaranteed. All electric cables (connection cord) must be routed so that damage resulting from crushing, deflection or traction is not possible.

Maintenance

The actuators contain greasing, which under normal operating conditions will suffice for around 10 000 double strokes. Only the gear rack should be cleaned and a thin layer of grease applied from time to time when the actuator is stationary and extended. The duration of life of the actuator depends greatly on the application for which it is used (e.g. temperature, relationship between stroke-force-cycles and environmental factors) and must if necessary be calculated separately. Defective actuators may only be opened and repaired in our factory.



Accessories/version

- Standard strokes 180, 230, 350, 550, 750, 1 000 mm
- 1S69045 articulated section on window
- 1S69046 rear bracket for bar mounting (on request)
- 1S69048 mounting bracket with screws
- Winter garden control

Technical data:	Unit	CK...230 V-600 N	CK...230 V-200 N	CK...24 V-800 N	CK...24 V-300 N
Push and pull force	N	600	200	800	300
Stroke (see accessories)	mm	180/230/350/ 550/750/1 000	180/230/350/ 550/750/1 000	180/230/350/ 550/750/1 000	180/230/350/ 550/750/1 000
Pushing speed	mm/s	5 to 7	14 to 18	10 to 12	20 to 22
Idle time (at 1 000 mm)	sec.	125	72	84	42
Voltage/frequency	V/Hz	230/50	230/50	-	-
Voltage	V	-	-	24	24
Motor speed	rpm	13	22	24	39
Motor torque	Ncm	360	129	500	230
Duty cycle	%	50	50	50	50
Power input	W	20	20	24	24
Current input	A	0,1	0,1	1,0	1,0
Protection class	IP	55	55	55	55



