



OMAL电动执行器 OMAL electrical actuator



重量轻
LIGHT

体积小
COMPACT

扭矩大
POWERFULL

选择OMAL的七大理由

- 充分保证小体积、大扭矩、易操作、便维护的要求，确保在不同工况条件下稳定运行
- 电机、传动装置和控制元件分腔室布置，互不干扰，节省空间，便于维护
- 多级齿轮和蜗轮蜗杆传动系统传动精确，可自锁定位
- 智能一体化结构易于操作
- 过热、过力矩和超限位等多重保护功能确保电动执行器安全运行
- 优异的性能基于精心选材和对每一个元件的一系列严格测试
- 型号齐全，多种附件备选，ISO5211标准连接方式
- *Compact structure, large torque, easy operation and convenient maintenance ensure of stable function under different working conditions*
- *Motor, gearing and control elements in separate rooms for less space and easier maintenance without interference*
- *Multi-class gears and worm gearing bring precise transmission and self-lock positioning*
- *Intellectualized integrative structure for easier operation*
- *Multiple protection including over heating, over torque and over limit position ensure electric actuators of safe running*
- *Careful choice of raw materials and a series of strict tests for each element guarantee our excellent performance*
- *Complete models with various accessories and connection according to ISO5211*



AE 开关型电动执行器

Electrical actuator ON-OFF rotary type



技术特点

转 角: 90° (最大100°)
工作效率: 50% 符合CEI60043标准
最大扭矩: 10~1960Nm (见特性表)
工作电压: 230V AC (± 10%) 50 / 60Hz
绝 缘: 100 M / 500 Vdc
绝缘压力: 1500Vac / 分钟
电机防护等级: E 级
工作温度: -25℃至55℃(如果应用于0℃以下, 建议使用抗冷凝物质)
防护等级: IP65 (NEMA4,4X)
阀门接合面: 法兰F03至F14 (ISO5211标准)
电机带过热保护装置
限位开关带全程可调凸轮
安全可调机械限位开关
可视位置指示
用于手动操作的可分离手柄
螺钉接线端子 / 专用电缆收紧器
最大工作噪音: 73 dB

选 项 (订货时需申明)

电 压: 115V ac - 24Vac - 24Vdc
扭矩限制器
位置电位计: 135 / 500 / 1K ohms
阀位变送器: R/I 4~20mA DC (***)
速度控制器: 30 ÷ 240 s (***)
空间加热器
紧急蜗轮手柄(仅限于AE100和AE200)
驱动轴孔
* AE 10 ÷ AE 200 only
** AE 40 ÷ AE 200 only
*** AE 100 ÷ AE 2000 only (Vac)

开关型电动执行器

型 号 MODEL	AE10	AE40	AE100	AE200	AE400	AE600	AE1000	AE1500	AE2000
扭矩torque (Nm)	10	39	98*	196	390	590	980	1470	1960
动作循环时间time of cycle(50Hz) (秒sec.)	4	15	30	30	30	45	30	45	60
动作循环时间time of cycle(60Hz) (秒sec.)	3,3	12,5	25	25	25	38	25	38	50
动作循环时间time of cycle(24Vdc)(秒sec.)		9,5	16	30					
消耗电流consumption 230Vac 50/60Hz (A)	0,4 / 0,5	0,4 / 0,5	0,35 / 0,4	0,55 / 0,6	0,9 / 1	1 / 1,1	1,5 / 1,6	1,8 / 1,9	1,9 / 2
消耗电流consumption 115Vac 50/60Hz (A)	0,8 / 0,9	0,8 / 0,9	0,6 / 0,7	1,1 / 1,2	1,9 / 2	1,9 / 2	2,9 / 3	3,4 / 3,5	3,4 / 3,5
消耗电流consumption 24Vdc 50/60Hz (A)	1,2 / 1,3	1,2 / 1,3	1,7 / 1,8	2,3 / 2,4					
消耗电流consumption 24Vdc (A)		1,28	2,03	3,57	5,13	6,04			

* 电压Voltage 24 Vdc: 68Nm

ACTUATOR FEATURES

Actuator ON-OFF; working angle 90° (100° Max.).
Service 50% in compliance with CEI 60043
Maximum torque from 10 to 1960 Nm. (see the table)
Supply voltage 230 Vac (± 10%) 50/60 Hz 1Ph
Insulation resistance 100 M / 500 Vdc
Tension insulation 1500 Vac / 1 minute
Motor with Class E insulation
Working temperature from -25°C to + 55°C (for use in temperatures below 0°C, we suggest anti-condensate elements)
Protection according to NEMA 4, 4X rules (IP65)
Coupling flange for the valve from F03 to F14: ISO 5211.
Auto-reset thermostatic protection in the motor.
Open/close limit switch with cams adjustable along the whole stroke
Auxiliary limit switches with cams adjustable along the whole stroke
Safety adjustable mechanical limit switches.
Graduated visual position indicator
Detachable lever for manual operation
Electric connections with screw terminals
Locking of supply cables by means of cable presses.
Maximum working noise 73 dB.

OPTIONAL (must be requested when placing the order)

Feeding voltage 115 Vac - 24 Vac (*) - 24 Vdc (**).
Torque limiters.
Positional potentiometer 135 / 500 / 1K ohms.
Positional converter R/I 4 ÷ 20 mA DC (***)
Speed control unit 30 ÷ 240s (***)
Space heater.
Emergency gear box (available on AE100 and AE200).
Drive socket.
* AE 10 ÷ AE 200 only
** AE 40 ÷ AE 200 only
*** AE 100 ÷ AE 2000 only (Vac)



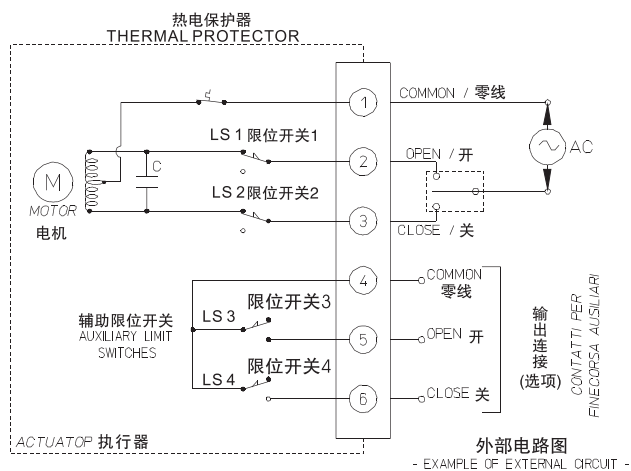
1	阀体 <i>Body</i>	铝 <i>Aluminium</i>
2	手动传动箱 <i>Manual gear box cap</i>	铝 <i>Aluminium</i>
3	位置指示器 <i>Position indicator</i>	玻璃 <i>Glass</i>
4	交流接收机盖 <i>Electric-set cap</i>	铝 <i>Aluminium</i>
5	接线盒盖 <i>Terminal-box cap</i>	铝 <i>Aluminium</i>
6	电缆收紧器 <i>Cable press</i>	锌合金 <i>Zinc alloy</i> (AE 10 - AE 40: 尼龙 <i>Nylon</i>)
7	控制杆连接 <i>Lever connection</i>	钢 <i>Steel</i>
8	内轴 <i>Female shaft</i>	锌合金 <i>Zinc alloy</i> (AE 1500 - AE 2000: 钢 <i>Steel</i>)
9	安全停止 <i>Security stops</i>	不锈钢 <i>Stainless steel</i>
10	手柄连接保护 <i>Protections for lever connection</i>	丁晴橡胶 <i>NBR</i>
11	控制手柄 <i>Lever</i>	不锈钢 <i>Stainless steel</i>

订货号	MODEL	AE 10	AE 40	AE 100	AE 200	AE 400	AE 600	AE 1000	AE 1500	AE 1500
A	mm.	158,5	158,5	207,5	256,5	256,5	256,5	330	330	330
B	mm.	114,5	114,5	122,5	164	164	164	217	217	217
C	mm.	119,5	119,5	163,5	193	193	193	225	225	225
D	mm.	76	76	110	133,5	133,5	133,5	199,5	199,5	199,5
E	mm.	51	51	54,5	62,5	62,5	62,5	87	87	87
H	mm.	9	9	11	17	17	22	27	36	36
K	mm.	16	16	34	45	45	45	63	63	63
ø M	mm.	26	26	35	40	40	40	65	65	65
ø P	mm.	50 F05	50 F05	70 F07	102 F10	102 F10	125 F12	125 F12	140 F14	140 F14
ø Q	mm.	36 F03	36 F03	50 F05	70 F07	70 F07	102 F10	102 F10		
Rx depth	mm.	M6x12	M6x12	M8x12	M10x16	M10x16	M12x20	M12x20	M16x25	M16x25
S	mm.	M5x10	M5x10	M6x10	M8x8	M8x8	M10x20	M10x20		
T	mm.	80	80	98	135	135	160	160	160	160
U	mm.	72	72	86	106	106	140	140	140	140
V	mm.	26	26	26	26	26				
重量 Weight	kg.	2,7	2,7	4,5	8,5	9	9	18	18	18



AE / AM 电动执行器电路设计及连接示例

AE / AM electric plan and connection examples



AE Vac

AE Vac

AE电动开关型

带可选 电压的标准连接电路

Electrical actuator ON-OFF AE type

Example of standard connection circuit with alternative tension feeding.

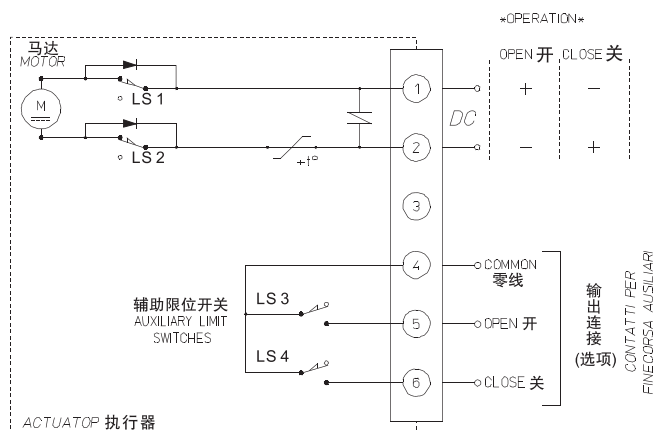
AE Vdc

AE电动开关型

带直流 电压的标准连接电路

Electrical actuator ON-OFF AE type

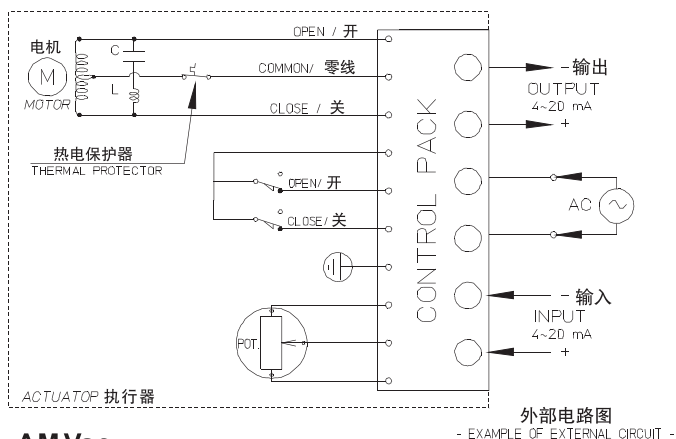
Example of standard connection circuit with direct tension feeding.



AE Vdc

外部电路图

- EXAMPLE OF EXTERNAL CIRCUIT -



AM Vac

AM Vac

AM 电动调节型

带可选 电压的标准连接电路

Electrical actuator Modulating AM type

Example of standard connection circuit with alternative tension feeding.