

FICHA TECNICA Y GUIA DE SELECCION

Actuador Electrico EADE

Modelo: Series DE-G / DE-P



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SIINPRO - Sinergia Industrial de Procesos S.A. de C.V.

Electric actuator

- DE-P series
- DE-G series

► Model range / Selection Guide

VALVE SIZE		BALL VALVE (2WAY/10K/#150)		BUTTERFLY VALVE (10K/#150)	
1/2"	15A	DE-G series	DE002		
3/4"	20A		DE004		
1"	25A		DE005		
1-1/4"	32A		DE006		
1-1/2"	40A		DE008		
2"	50A	DE-P series	DE010	DE-G series	DE004
2-1/2"	65A		DE016		DE005
3"	80A		DE028		DE006
4"	100A		DE040	DE-P series	DE008
5"	125A		DE050		DE010
6"	150A				DE016
8"	200A				DE028
10"	250A				DE040
12"	300A				DE050

The above data is for reference only; the actual assembly may be different depending on valve material, pressure, structure, fluid and operational environment.

► Model code

Q50-50-2AK3C11-OP

(a) (b) (c) (d) (e) (f) (g) (h)

(a)	(d)	(e)	(f)	(h)
Mechanism	Voltage	Color	ISO5211	OPTION
Q: Quarter turn	1A: 110V AC	K: Black	3: F03	WT: Watertight (IP68)
L: Linear	2A: 220V AC	L: Blue	5: F05	TS: Electric Torque switches
	3A: 380V AC (DE016-DE050)	W: White	:	PU: Potentiometer unit
(b)	4A: 440V AC (DE016-DE050)	R: Red	(g)	CT: Current transmitter
Model No.	2D: 24V DC (DE002-DE040)	G: Grey	STEM	MC: Modulating control
2: 002	1M: 100-240V AC (DE005)	M: Mint	C11: 11*11	(M42/M01/M21/M05/M15)
4: 004	2M: 24V AC/DC (DE005)		C14: 14*14	MCT: MC with Torque switches
:			:	LC1: Local Control unit (1P)
(c)				LC3: Local Control unit (3P)
Torque				CB2: 24V DC Control board (2Wire)
No.: No.*10Nm				CB3: 24V DC Control board (3Wire)

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Plastic intermediate cap

There will be no rubbing off even when used for a long period or exposure to sunlight by the use of plastic cap, a non-printing method.



Terminal Box

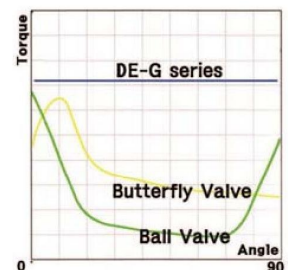
Safe and simple wiring is possible by just opening the terminal box without the need of opening & closing whole product. (except KE002)

Dome type indicator

Since indicator is exposed to the outside, it is easy to check the status of opening and closing of the valve at a distance.

Captive bolt

Bolts shall not be lost even though the cover is opened for wiring.



► PERFORMANCE

► DE002/DE004/DE006/DE008 (Single-voltage Type)

MODEL	MAX TORQUE (Nm)	OP. TIME 50Hz/60Hz(sec)	RATED CURRENT(A)			MOTOR CONDITION	MOTOR CLASS/OUTPUT (AC · DC)	No. OF HANDLE TURNS
			AC(1PH) 50/60Hz	DC				
			110V	220V	24V			
DE002-6G	20	17.5/14.5	0.29/0.25	0.12/0.1	1.5	DUTY 40%	E · B/10W · 10W	3
DE002-5G	10	7/6	0.29/0.25	0.12/0.1	1.5	DUTY 40%	E · B/10W · 10W	3
DE004-5G	40	12/10	0.67/0.6	0.23/0.2	2.0	DUTY 40%	E · B/10W · 10W	3
DE004-4G	15	8.5/7	0.67/0.6	0.23/0.2	2.0	DUTY 40%	E · B/10W · 10W	3
DE006-6G	60	18/15	0.67/0.6	0.23/0.2	2.0	DUTY 40%	E · B/10W · 10W	3
DE006-5G	25	8/6.5	0.67/0.6	0.23/0.2	2.0	DUTY 40%	E · B/10W · 10W	3
DE008-6G	80	17/14	0.53/0.50	0.33/0.29	2.5	DUTY 40%	F · B/10W · 10W	20
DE008-5G	40	8/6	0.53/0.50	0.33/0.29	2.5	DUTY 40%	F · B/10W · 10W	20

*Maximum current can be +30% from Rated current.

► DE005 (Multi-voltage type)

MODEL	MAX TORQUE (Nm)	OP. TIME 50Hz/60Hz (sec)	RATED CURRENT (A)		MOTOR CONDITION	MOTOR CLASS/OUTPUT (AC · DC)	No. OF HANDLE TURNS
			100V~250V AC	24V DC			
DE005-8G	50	13	0.1~0.25	2.0	DUTY 40%	B · B/10W · 10W	18
DE005-7G	20	6	0.1~0.25	2.0	DUTY 40%	B · B/10W · 10W	18

*24V DC is Control Board embedded.

*Maximum current can be +30% from Rated current.

► STANDARD SPECIFICATION

► DE002/DE004/DE006/DE008

#Option

ENCLOSURE	WEATHER PROOF IP67
MAIN POWER	110V, 220V AC 1PH 50Hz/60Hz, 24V DC
MOTOR CONDITION	DUTY 40%
INDICATOR	DOME TYPE MECHANICAL INDICATOR
LIMIT SWITCHES	2EACH FOR OPEN & CLOSE SPDT 240VAC/5A (Except KE002)
MANUAL OPERATION	(DE002~006) BY SPANNER 5mm (DE008) BY WRENCH 5mm (HEX.)
TRAVEL ANGLE	90°±5°
AMBIENT TEMPERATURE	-20℃~+60℃
EXTERNAL COATING	POWDER COATING
INSIDE HEATER	(DE002~006) N/A (DE008) 1PH 220V/110V AC (Only AC)
ISO5211, CH STEM, WEIGHT	(DE002) F03/F05, CH 11*11 DP15 0.9Kg (DE004) F03/F05/F07, CH 11*11 DP15, 1.5Kg #CH 14*14 DP16 (DE006) F03/F05/F07, CH 14*14 DP16 1.9Kg (DE008) F03/F05/F07, CH 14*14 DP16/ #F05/07, CH 17*17 DP19, 2.6Kg
CABLE ENTRY	(DE002) CABLE WIRE TYPE (PG11 WIRE 1000mm) (DE004/DE006) TERMINAL BOX TYPE (1-PF1/2) (DE008) TERMINAL BOX TYPE (2-PF1/2)

► DE005

#Option

ENCLOSURE	WEATHER PROOF IP67
MAIN POWER	110V, 220V, AC 1PH, 50Hz/60Hz, 24V DC
MOTOR CONDITION	DUTY 40%
INDICATOR	DOME TYPE MECHANICAL INDICATOR
LIMIT SWITCHES	2EACH FOR OPEN & CLOSE (SPDT 250VAC/5A)
MANUAL OPERATION	BY WRENCH 5mm (HEX.)
TRAVEL ANGLE	90°±5°
AMBIENT TEMPERATURE	-20℃~+60℃
EXTERNAL COATING	POWDER COATING
INSIDE HEATER	HEATING ELEMENT ON PCB (Only AC)
ISO5211, CH STEM, WEIGHT	F03,F05,F07, CH 14*14 DP17, 1.3Kg #CH 11*11 DP15
CABLE ENTRY	TERMINAL BOX TYPE (1-PF1/2", #2-PF1/2")

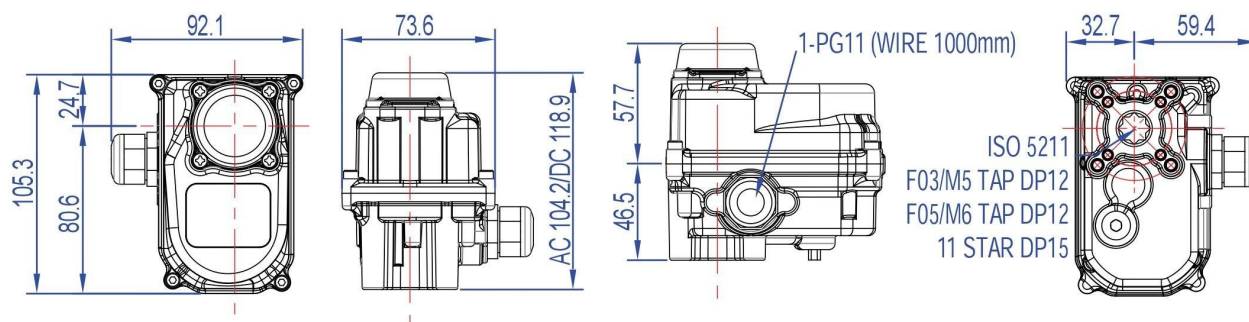
-There is a extra charge for 2-PF1/2".

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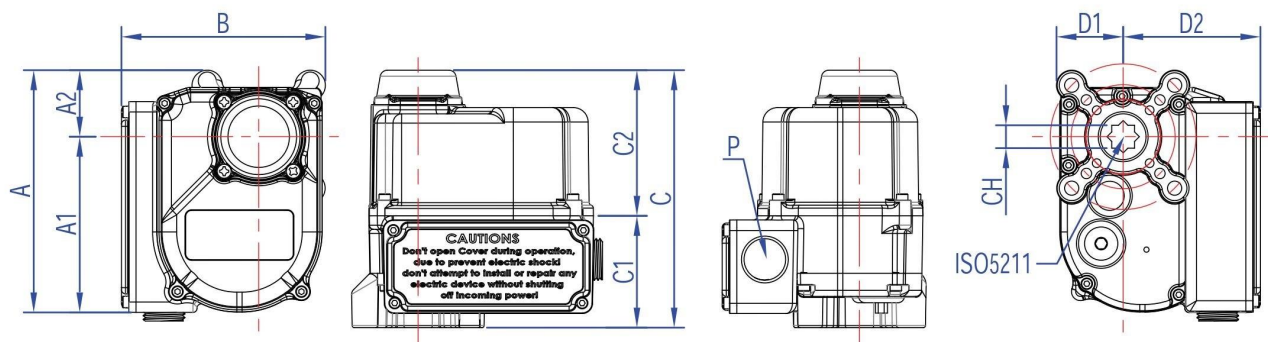
► DIMENSION



DE002



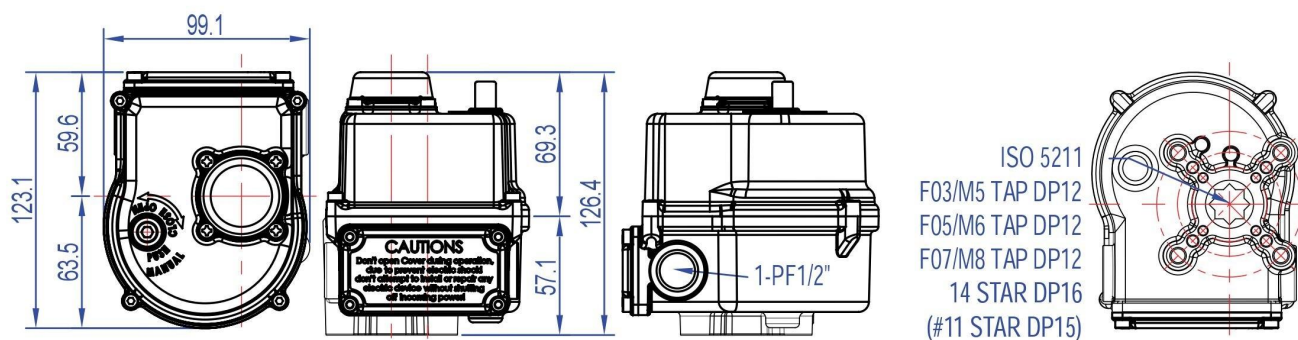
DE004/DE006/DE008



MODEL	A	A1	A2	B	C	C1	C2	ISO5211	P.C.D	N-M	CH	DTH	P
DE004	116.5	32	84.5	98.1	123.8	53.8	70	F03/F05/F07	36/50/70	4-M5/M6/M8	11*11 #14*14	15 16	1-PF1/2"
DE006	122	34.2	97.9	111.3	59	75.5	134.5	F03/F05/F07	36/50/70	4-M5/M6/M8	14*14	16 16	1-PF1/2"
DE008	125.3	33.7	91.6	122.3	81.5	74	155.5	¹⁾ F03/F05/F07	36/50/70	4-M5/M6/M8	14*14	16	2-PF1/2"
								¹⁾ #F05/07	50/70	4-M6/M8	17*17	19	

1) You can choose only F03/F05/F07 with 14*14 or F05/f07 with 17*17.

DE005

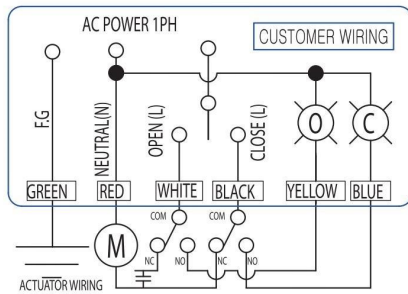


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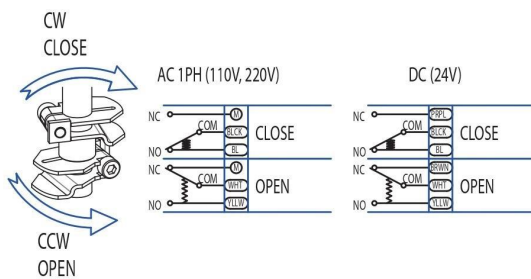
► Wiring

DE002

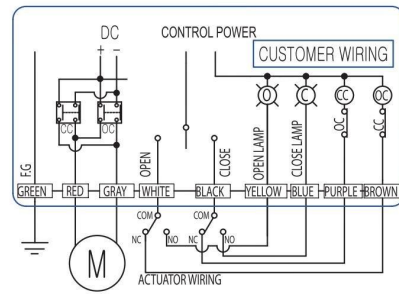
► AC 1PH



► SWITCH WIRING (POSITION : FULL CLOSE)



► DC 24V

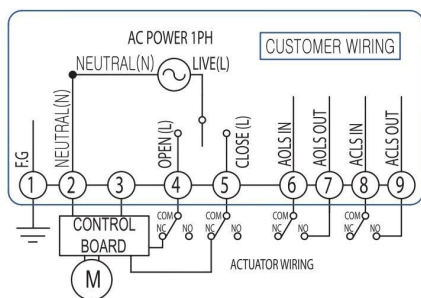


► LIMIT SWITCH OPERATION

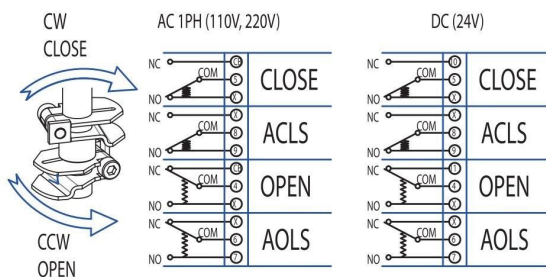
SWITCH	CLOSE	← INTERMEDIATE →	OPEN
CLS COM-NC			
CLS COM-NO			
OLS COM-NC			
OLS COM-NO			

DE004/DE006

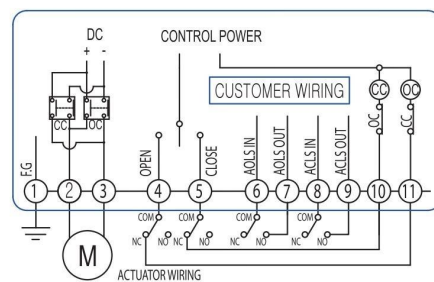
► AC 1PH



► SWITCH WIRING (POSITION : FULL CLOSE)



► DC 24V



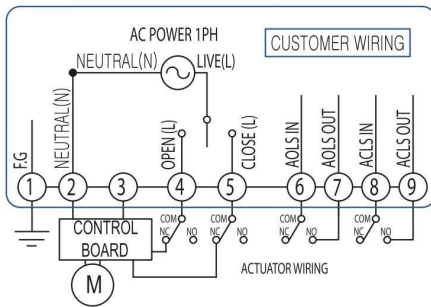
► LIMIT SWITCH OPERATION

SWITCH	CLOSE	← INTERMEDIATE →	OPEN
CLS COM-NC			
CLS COM-NO			
ACLS COM-NC			
ACLS COM-NO			
OLS COM-NC			
OLS COM-NO			
AOLS COM-NC			
AOLS COM-NO			

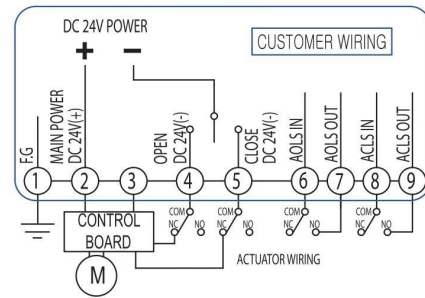


DE005

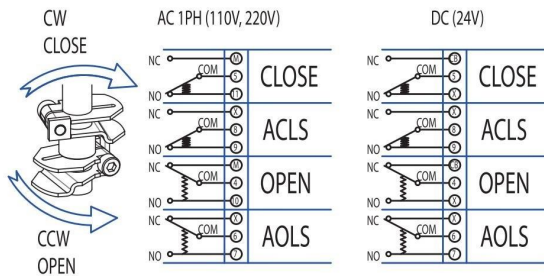
► AC 1PH



► DC 24V



► SWITCH WIRING (POSITION : FULL CLOSE)

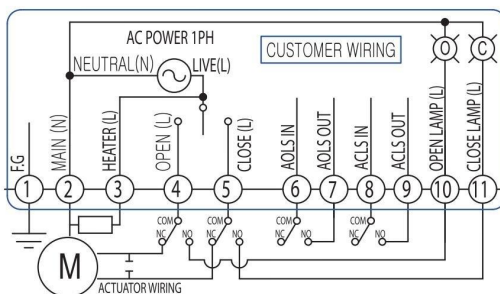


► LIMIT SWITCH OPERATION

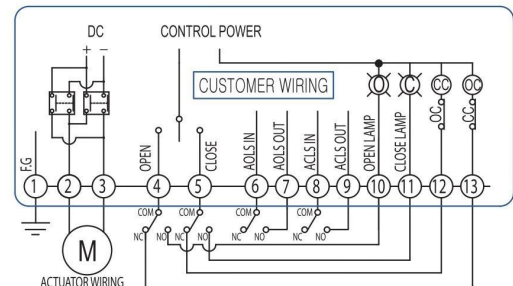
SWITCH	CLOSE	INTERMEDIATE	OPEN
CLS COM-NC			
CLS COM-NO			
ACLS COM-NC			
ACLS COM-NO			
OLS COM-NC			
OLS COM-NO			
AOLS COM-NC			
AOLS COM-NO			

DE008

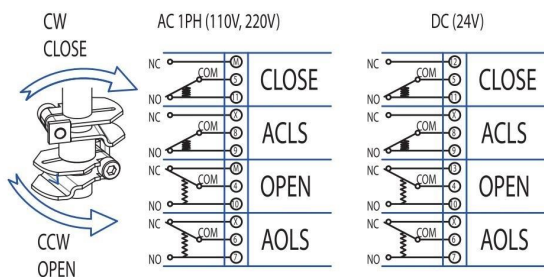
► AC 1PH



► DC 24V



► SWITCH WIRING (POSITION : FULL CLOSE)



► LIMIT SWITCH OPERATION

SWITCH	CLOSE	INTERMEDIATE	OPEN
CLS COM-NC			
CLS COM-NO			
ACLS COM-NC			
ACLS COM-NO			
OLS COM-NC			
OLS COM-NO			
AOLS COM-NC			
AOLS COM-NO			