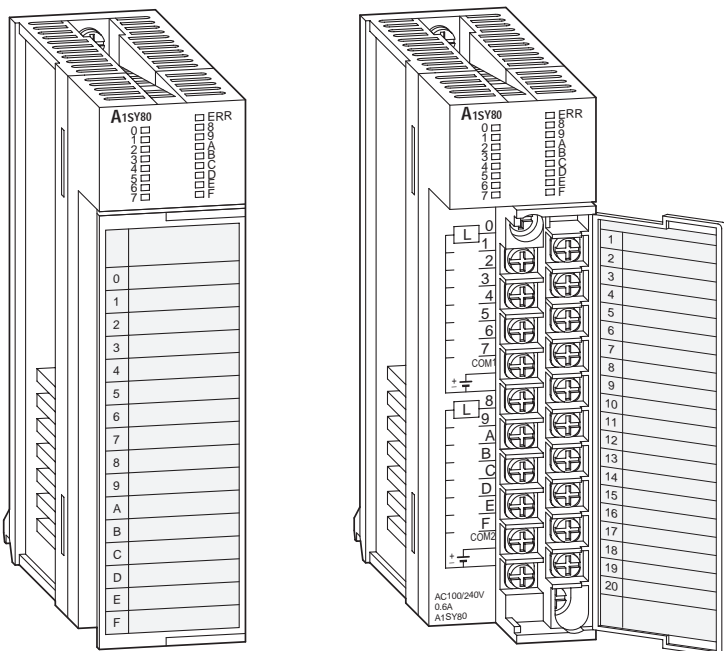


MELSEC AnS/QnAS Digital Output Modules



Adapted output technology

The MELSEC AnS output modules have different switching elements for adaptation to many control tasks.

Special features:

- Output modules with relay, transistor or triac switches
- Potential isolation between process and control by means of an optocoupler is a standard feature
- Modules with potential isolation between the channels
- Modules with 16 protection points have removable terminal blocks with screws
- Modules with 32 connection points have a 37-pin D-sub plug (supplied with the module)
- Assembled cables are available for the modules with D-sub plugs (A32CBL: 3 m)

Specifications	A1SY10EU	A1SY14EU	A1SY18AEU	A1SY22 ^①	A1SY28EU	A1SY68A	A1SY80	A1SY81	
Outputs	16	12	8	16	8	8	16	32	
Output type	Relay	Relay	Relay	Triac	Triac	Transistor	Transistor	Transistor	
Common terminal arrangement	points	8	4	1	8	4	1	8	32
Isolation method	Photocoupler isolation between output terminals and PC power for all modules.								
Rated output voltage	24 V DC / 120 V AC	24 V DC / 240 V AC	24 V DC / 240 V AC	100 – 240 V AC	100 – 240 V AC	5 / 12 / 24 / 48 V DC	12 / 24 V DC	12 / 24 V DC	
Operating voltage range	—	—	—	—	—	4.5 – 52.8 V DC	10.2 – 30 V DC	10.2 – 30 V DC	
Min. switching load	5 V DC (1 mA)	5 V DC (1 mA)	5 V DC (1 mA)	24 V AC (100 mA) 100 V AC (10 mA) 240 V AC (20 mA)	24 V AC (15 mA) 100 V AC (15 mA) 240 V AC (15 mA)	—	—	—	
Max. switching voltage	125 V DC / 132 V AC	125 V DC / 264 V AC	125 V DC / 264 V AC	264 V AC	264 V AC	—	—	—	
Max. output current	A	2	2	0.6	0.6	2	0.8	0.1	
Output current per group TYP.	A	8	8	2.4	1.9	2	3.2	2	
Inrush current	—	—	—	20 A for 10 ms, 8 A for 100 ms	30 A for 10 ms, 15 A for 100 ms	8 A for 10 ms	8 A for 10 ms	0.4 A for 10 ms	
Leakage current at OFF	mA	—	—	1.5 mA (120 V AC), 3 mA (240 V AC)	1.5 mA (240 V AC / 60 Hz)	0.1	0.1	0.1	
Response time	ms	10	10	10	1	1	3	2	
	ms	12	12	12	0.5 period + 1 ms	0.5 period + 1 ms	10	2	2
Life	mechanical	Switching 20 million times		—	—	—	—	—	
	electrical	Switching 100000 times or more		—	—	—	—	—	
Max. switching frequency	—	Switching 3600 times/h		—	—	—	—	—	
Noise suppression	—	—	—	CR (0.01µF, 47Ω)	CR (0.01µF, 47Ω)	Zener diode	Zener diode	Zener diode	
Fuse	A	—	—	5	—	—	5	3,2	
Power indicator	All modules possess a status LED per output.								
Fuse blown indicator	—	—	—	LED	—	—	LED	LED	
Connection terminal	20-point removable terminal block							D-Sub plug	
No. of occupied I/O points	16	16	16	16	16	16	16	32	
Applicable wire size	mm ²	0.75 – 1.5	0.75 – 1.5	0.75 – 1.5	0.75 – 1.5	0.75 – 1.5	0.75 – 1.5	0.3	
Ext. power supply req.	voltage	90	100	75	2	—	20	8	
	current	24 V DC, ±10 %	24 V DC, ±10 %	24 V DC, ±10 %	100 – 240 V AC	240 V AC	—	12/24 V DC	12/24 V DC
Internal power consumption (5 V DC)	mA	120	120	240	270	270	110	120	500
Weight	kg	0.25	0.25	0.25	0.24	0.24	0.2	0.2	0.23
Dimensions (W x H x D)	mm	34.5 x 130 x 93.6	34.5 x 130 x 93.6	34.5 x 130 x 93.6	34.5 x 130 x 93.6	34.5 x 130 x 93.6	34.5 x 130 x 93.6	34.5 x 130 x 93.6	
Order information	Art. no.	53666	54349	53667	24976	54348	33199	24977	24978
Accessories	—	—	—	—	—	—	—	—	Adapter cable

① Does not comply to CE standard

