



# ANLY SOLID STATE RELAY



## FEATURES

- \*HIGH RELIABILITY
- \*LONG LIFE
- \*NO SWITCHING SPARKS
- \*NO NOISE
- \*NO CONTACT POINTS
- \*FAST REACTION
- \*UL, C-UL and CE certified

## TYPE SELECTION :

### CURRENT :

| MODEL      | TYPE         | CURRENT CONTROL       | MAX. LOAD CURRENT | LOAD VOLTAGE RANGE | SWITCHING TYPE | WEIGHT        |
|------------|--------------|-----------------------|-------------------|--------------------|----------------|---------------|
| ASR-10CA   | Current → AC | 4~20mA<br>(DC3.8~10V) | 10A               | 24~280VAC          | Phase Control  | Approx. 100 g |
| ASR-15CA   |              |                       | 15A               |                    |                | Approx. 100 g |
| ASR-25CA   |              |                       | 25A               |                    |                | Approx. 100 g |
| ASR-40CA   |              |                       | 40A               |                    |                | Approx. 100 g |
| ASR-50CA   |              |                       | 50A               |                    |                | Approx. 100 g |
| ASR-75CA   |              |                       | 75A               |                    |                | Approx. 100 g |
| ASR-90CA   |              |                       | 90A               |                    |                | Approx. 100 g |
| ASR-10CA-H | Current → AC | 4~20mA<br>(DC3.8~10V) | 10A               | 48~480VAC          | Phase Control  | Approx. 100 g |
| ASR-15CA-H |              |                       | 15A               |                    |                | Approx. 100 g |
| ASR-25CA-H |              |                       | 25A               |                    |                | Approx. 100 g |
| ASR-40CA-H |              |                       | 40A               |                    |                | Approx. 100 g |
| ASR-50CA-H |              |                       | 50A               |                    |                | Approx. 100 g |
| ASR-75CA-H |              |                       | 75A               |                    |                | Approx. 100 g |
| ASR-90CA-H |              |                       | 90A               |                    |                | Approx. 100 g |

### VARIABLE :

| MODEL      | TYPE        | CONTROL IMPEDANCE | MAX. LOAD CURRENT | LOAD VOLTAGE RANGE | SWITCHING TYPE | WEIGHT        |
|------------|-------------|-------------------|-------------------|--------------------|----------------|---------------|
| ASR-10RA   | VARIABLE    | VR0~250KΩ         | 10A               | 24~280VAC          | Phase Control  | Approx. 92 g  |
| ASR-15RA   |             |                   | 15A               |                    |                | Approx. 92 g  |
| ASR-25RA   |             |                   | 25A               |                    |                | Approx. 95 g  |
| ASR-40RA   |             |                   | 40A               |                    |                | Approx. 95 g  |
| ASR-50RA   | VARIABLE    | VR0~500KΩ         | 50A               | 24~280VAC          | Phase Control  | Approx. 95 g  |
| ASR-75RA   |             |                   | 75A               |                    |                | Approx. 95 g  |
| ASR-90RA   |             |                   | 90A               |                    |                | Approx. 95 g  |
| ASR-10RA-H | VARIABLE(H) | VR0~1MΩ           | 10A               | 48~480VAC          | Phase Control  | Approx. 95 g  |
| ASR-15RA-H |             |                   | 15A               |                    |                | Approx. 95 g  |
| ASR-25RA-H |             |                   | 25A               |                    |                | Approx. 100 g |
| ASR-40RA-H |             |                   | 40A               |                    |                | Approx. 100 g |
| ASR-50RA-H |             |                   | 50A               |                    |                | Approx. 100 g |
| ASR-75RA-H |             |                   | 75A               |                    |                | Approx. 100 g |
| ASR-90RA-H |             |                   | 90A               |                    |                | Approx. 100 g |

# VOLTAGE : (Panel Mount Type)

| MODEL       | TYPE    | INPUT<br>CONTROL<br>VOLTAGE | MAX.<br>LOAD<br>CURRENT | LOAD<br>VOLTAGE<br>RANGE | SWITCHING<br>TYPE | WEIGHT       |
|-------------|---------|-----------------------------|-------------------------|--------------------------|-------------------|--------------|
| ASR-10DA    | DC → AC | 4~32VDC                     | 10A                     | 24~280VAC                | ZERO-CROSS        | Approx. 90g  |
| ASR-15DA    |         |                             | 15A                     |                          |                   | Approx. 90g  |
| ASR-25DA    |         |                             | 25A                     |                          |                   | Approx. 92g  |
| ASR-40DA    |         |                             | 40A                     |                          |                   | Approx. 92g  |
| ASR-50DA    |         |                             | 50A                     |                          |                   | Approx. 100g |
| ASR-75DA    |         |                             | 75A                     |                          |                   | Approx. 100g |
| ASR-90DA    |         |                             | 90A                     |                          |                   | Approx. 100g |
| ASR-100DA   |         |                             | 100A                    |                          |                   | Approx. 100g |
| ASR-125DA   |         |                             | 125A                    |                          |                   | Approx. 100g |
| ASR-10DA-H  | DC → AC | 4~32VDC                     | 10A                     | 48~480VAC                | ZERO-CROSS        | Approx. 90g  |
| ASR-15DA-H  |         |                             | 15A                     |                          |                   | Approx. 90g  |
| ASR-25DA-H  |         |                             | 25A                     |                          |                   | Approx. 92g  |
| ASR-40DA-H  |         |                             | 40A                     |                          |                   | Approx. 92g  |
| ASR-50DA-H  |         |                             | 50A                     |                          |                   | Approx. 100g |
| ASR-75DA-H  |         |                             | 75A                     |                          |                   | Approx. 100g |
| ASR-90DA-H  |         |                             | 90A                     |                          |                   | Approx. 100g |
| ASR-100DA-H |         |                             | 100A                    |                          |                   | Approx. 100g |
| ASR-125DA-H |         |                             | 125A                    |                          |                   | Approx. 100g |
| ASR-10AA    | AC → AC | 80~280VAC                   | 10A                     | 24~280VAC                | ZERO-CROSS        | Approx. 92g  |
| ASR-15AA    |         |                             | 15A                     |                          |                   | Approx. 92g  |
| ASR-25AA    |         |                             | 25A                     |                          |                   | Approx. 95g  |
| ASR-40AA    |         |                             | 40A                     |                          |                   | Approx. 95g  |
| ASR-50AA    |         |                             | 50A                     |                          |                   | Approx. 100g |
| ASR-75AA    |         |                             | 75A                     |                          |                   | Approx. 100g |
| ASR-90AA    |         |                             | 90A                     |                          |                   | Approx. 100g |
| ASR-100AA   |         |                             | 100A                    |                          |                   | Approx. 100g |
| ASR-125AA   |         |                             | 125A                    |                          |                   | Approx. 100g |
| ASR-10AA-H  | AC → AC | 80~280VAC                   | 10A                     | 48~480VAC                | ZERO-CROSS        | Approx. 92g  |
| ASR-15AA-H  |         |                             | 15A                     |                          |                   | Approx. 92g  |
| ASR-25AA-H  |         |                             | 25A                     |                          |                   | Approx. 95g  |
| ASR-40AA-H  |         |                             | 40A                     |                          |                   | Approx. 95g  |
| ASR-50AA-H  |         |                             | 50A                     |                          |                   | Approx. 100g |
| ASR-75AA-H  |         |                             | 75A                     |                          |                   | Approx. 100g |
| ASR-90AA-H  |         |                             | 90A                     |                          |                   | Approx. 100g |
| ASR-100AA-H |         |                             | 100A                    |                          |                   | Approx. 100g |
| ASR-125AA-H |         |                             | 125A                    |                          |                   | Approx. 100g |
| ASR-05DD    | DC → DC | 3~32VDC                     | 5A                      | 5~120VDC                 | N/A               | Approx. 95g  |
| ASR-10DD    |         |                             | 10A                     |                          |                   | Approx. 95g  |
| ASR-25DD    |         |                             | 25A                     |                          |                   | Approx. 100g |
| ASR-40DD    |         |                             | 40A                     |                          |                   | Approx. 100g |
| ASR-50DD    |         |                             | 50A                     |                          |                   | Approx. 100g |
| ASR-75DD    |         |                             | 75A                     |                          |                   | Approx. 100g |
| ASR-10DD-H  | DC → DC | 3~32VDC                     | 10A                     | 5~240VDC                 | N/A               | Approx. 95g  |
| ASR-25DD-H  |         |                             | 25A                     |                          |                   | Approx. 100g |
| ASR-40DD-H  |         |                             | 40A                     |                          |                   | Approx. 100g |
| ASR-50DD-H  |         |                             | 50A                     |                          |                   | Approx. 100g |
| ASR-75DD-H  |         |                             | 75A                     |                          |                   | Approx. 100g |

## VOLTAGE : (PCB Type)

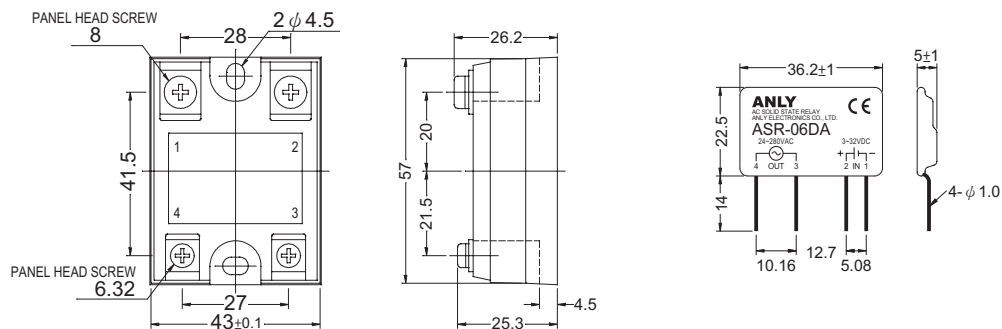
| MODEL      | TYPE    | INPUT CONTROL VOLTAGE | MAX. LOAD CURRENT | LOAD VOLTAGE RANGE | SWITCHING TYPE | WEIGHT      |
|------------|---------|-----------------------|-------------------|--------------------|----------------|-------------|
| ASR-02DA   | DC → AC | 3~32VDC               | 2A                | 24~280VAC          | ZERO-CROSS     | Approx. 12g |
| ASR-03DA   |         |                       | 3A                |                    |                | Approx. 12g |
| ASR-04DA   |         |                       | 4A                |                    |                | Approx. 12g |
| ASR-05DA   |         |                       | 5A                |                    |                | Approx. 12g |
| ASR-06DA   |         |                       | 6A                |                    |                | Approx. 12g |
| ASR-02DA-H | DC → AC | 3~32VDC               | 2A                | 24~480VAC          | ZERO-CROSS     | Approx. 12g |
| ASR-03DA-H |         |                       | 3A                |                    |                | Approx. 12g |
| ASR-04DA-H |         |                       | 4A                |                    |                | Approx. 12g |
| ASR-05DA-H |         |                       | 5A                |                    |                | Approx. 12g |
| ASR-06DA-H |         |                       | 6A                |                    |                | Approx. 12g |
| ASR-02AA   | AC → AC | 80~280VAC             | 2A                | 24~280VAC          | ZERO-CROSS     | Approx. 10g |
| ASR-04AA   |         |                       | 4A                |                    |                | Approx. 12g |
| ASR-06AA   |         |                       | 6A                |                    |                | Approx. 12g |
| ASR-02DD   | DC → DC | 3~32VDC               | 2A                | 3~60VDC            | N/A            | Approx. 10g |
| ASR-04DD   |         |                       | 4A                |                    |                | Approx. 12g |
| ASR-02AD   | AC → DC | 80~280VAC             | 2A                | 3~60VDC            | N/A            | Approx. 10g |
| ASR-04AD   |         |                       | 4A                |                    |                | Approx. 12g |

## GENERAL DATA :

| Type                                   | Current → AC                                                                                                        | Current→AC(H)                                                                                                                     | Type                                   | VARIABLE                                                                                                            | VARIABLE(H)                                                                                                                       | AC→DC                                                                                            |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Must Turn Off Voltage                  | MAX 3.0VDC                                                                                                          | MAX 3.0VDC                                                                                                                        | Must Turn Off Voltage                  | N/A                                                                                                                 | N/A                                                                                                                               | MAX 10VAC                                                                                        |
| Input Impedance                        | 150Ω                                                                                                                | 150Ω                                                                                                                              | Input Impedance                        | 1.5KΩ                                                                                                               | 1.5KΩ                                                                                                                             | 1.5KΩ                                                                                            |
| Min Blocking Voltage                   | 600VAC peak                                                                                                         | 1200VAC peak                                                                                                                      | Min Blocking Voltage                   | 600VAC peak                                                                                                         | 1200VAC peak                                                                                                                      | 02, 04AD:80VDC<br>10, 25AD:140VDC<br>10, 25AD-H:300VDC                                           |
| Max Off-State Leakage                  | LESS 4mA                                                                                                            | LESS 4mA                                                                                                                          | Max Off-State Leakage                  | LESS 5mA                                                                                                            | LESS 15mA                                                                                                                         | 02, 04AD:LESS 1mA<br>10, 25AD:LESS 3mA<br>10, 25AD-H:LESS 3mA                                    |
| Frequency Range                        | 40~65Hz                                                                                                             | 40~65Hz                                                                                                                           | Frequency Range                        | 47~70Hz                                                                                                             | 47~70Hz                                                                                                                           | 47~70Hz                                                                                          |
| Critical dv/dt Off-State Min.          | 1000V/μSec                                                                                                          | 1000V/μSec                                                                                                                        | Max Off-State dv/dt                    | 200V/μSec                                                                                                           | 200V/μSec                                                                                                                         | 200V/μSec                                                                                        |
| Critical dI/dt @50Hz                   | 100A/μSec                                                                                                           | 100A/μSec                                                                                                                         | Max On-State Voltage Drop              | 2.0VACrms                                                                                                           | 2.0VACrms                                                                                                                         | 1.2Vrms                                                                                          |
| Max input Current                      | 50mA                                                                                                                | 50mA                                                                                                                              | Isolate Impedance                      | 10GΩ                                                                                                                | 10GΩ                                                                                                                              | 10GΩ                                                                                             |
| Dielectric Strength Input -Output      | 4000Vrms                                                                                                            | 4000Vrms                                                                                                                          | Dielectric Strength Input -Output      | 4000VACrms                                                                                                          | 4000VACrms                                                                                                                        | 2500Vrms                                                                                         |
| Dielectric Strength Input, Output-Case | 2500Vrms                                                                                                            | 2500Vrms                                                                                                                          | Dielectric Strength Input, Output-Case | 2500VACrms                                                                                                          | 2500VACrms                                                                                                                        | N/A                                                                                              |
| Pick up Current                        | 4mA                                                                                                                 | 4mA                                                                                                                               | Turn On Time                           | LESS 2mSec                                                                                                          | LESS 2mSec                                                                                                                        | LESS 2mSec                                                                                       |
| Drop out Current                       | 3.5mA                                                                                                               | 3.5mA                                                                                                                             | Turn Off Time                          | LESS 1/2 AC CYCLE                                                                                                   | LESS 1/2 AC CYCLE                                                                                                                 | LESS 1/2 CYCLE                                                                                   |
| Response time                          | 10mS                                                                                                                | 10mS                                                                                                                              | Capacitance In-Out                     | LESS 15 pF                                                                                                          | LESS 15 pF                                                                                                                        | LESS 15 pF                                                                                       |
| Non-rep. Surge Current                 | ASR-10CA:100A<br>ASR-15CA:150A<br>ASR-25CA:250A<br>ASR-40CA:400A<br>ASR-50CA:500A<br>ASR-75CA:750A<br>ASR-90CA:900A | ASR-10CA-H:100A<br>ASR-15CA-H:150A<br>ASR-25CA-H:250A<br>ASR-40CA-H:400A<br>ASR-50CA-H:500A<br>ASR-75CA-H:750A<br>ASR-90CA-H:900A | Max 1-Cycle Peak Surge                 | ASR-10RA:100A<br>ASR-15RA:150A<br>ASR-25RA:250A<br>ASR-40RA:400A<br>ASR-50RA:500A<br>ASR-75RA:750A<br>ASR-90RA:900A | ASR-10RA-H:100A<br>ASR-15RA-H:150A<br>ASR-25RA-H:250A<br>ASR-40RA-H:400A<br>ASR-50RA-H:500A<br>ASR-75RA-H:750A<br>ASR-90RA-H:900A | ASR-02AD:3A<br>ASR-04AD:8.5A<br>ASR-10AD:15A<br>ASR-25AD:35A<br>ASR-10AD-H:15A<br>ASR-25AD-H:35A |

| Type                                   | DC→AC                                                                                                                                                                                                                                    | DC→AC(H)                                                                                                                                                                                                                                                             | AC→AC                                                                                                                                                                                                    | AC→AC(H)                                                                                                                                                                   | DC→DC                                                                                                                            | DC→DC(H)                                                                                   |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Must Turn Off Voltage                  | MAX 1.0VDC                                                                                                                                                                                                                               | MAX 1.0VDC                                                                                                                                                                                                                                                           | MAX 10VAC                                                                                                                                                                                                | MAX 10VAC                                                                                                                                                                  | MAX 1.0VDC                                                                                                                       | MAX 1.0VDC                                                                                 |
| Input Impedance                        | 1.5K $\Omega$                                                                                                                                                                                                                            | 1.5K $\Omega$                                                                                                                                                                                                                                                        | 1.5K $\Omega$                                                                                                                                                                                            | 1.5K $\Omega$                                                                                                                                                              | 1.5K $\Omega$                                                                                                                    | 1.5K $\Omega$                                                                              |
| Min Blocking Voltage                   | 600VAC peak                                                                                                                                                                                                                              | 1200VAC peak                                                                                                                                                                                                                                                         | 600VAC peak                                                                                                                                                                                              | 1200VAC peak                                                                                                                                                               | 02~04DD:80VDC<br>05~75DD:140VDC                                                                                                  | 300VDC                                                                                     |
| Max Off-State Leakage                  | 2~6DA:LESS 5mA<br>10~125DA:LESS 7.5mA                                                                                                                                                                                                    | 2~6DAH:LESS 5mA<br>10~125DAH:LESS 15mA                                                                                                                                                                                                                               | LESS 5mA                                                                                                                                                                                                 | LESS 15mA                                                                                                                                                                  | 02~04DD:LESS 1mA<br>05DD:LESS 3mA<br>10DD:LESS 5mA<br>25~75DD:LESS 7mA                                                           | 10DD-H:LESS 7mA<br>25~75DD-H:LESS 15mA                                                     |
| Frequency Range                        | 47~70Hz                                                                                                                                                                                                                                  | 47~70Hz                                                                                                                                                                                                                                                              | 47~70Hz                                                                                                                                                                                                  | 47~70Hz                                                                                                                                                                    | 47~70Hz                                                                                                                          | 47~70Hz                                                                                    |
| Max Off-State dv/dt                    | 2~4DA:100V/ $\mu$ Sec<br>6~100DA:200V/ $\mu$ Sec                                                                                                                                                                                         | 200V/ $\mu$ Sec                                                                                                                                                                                                                                                      | 2~4AA:100V/ $\mu$ Sec<br>6~100AA:200V/ $\mu$ Sec                                                                                                                                                         | 200V/ $\mu$ Sec                                                                                                                                                            | 200V/ $\mu$ Sec                                                                                                                  | 200V/ $\mu$ Sec                                                                            |
| Max On-State Voltage Drop              | 02~03DA:1.5VACrms<br>04~100DA:2.0VACrms                                                                                                                                                                                                  | 2.0VACrms                                                                                                                                                                                                                                                            | 02AA:1.5VACrms<br>04~100AA:2.0VACrms                                                                                                                                                                     | 2.0VACrms                                                                                                                                                                  | 02~04DD:1.2Vrms<br>05~75DD:2.0Vrms                                                                                               | 2.0VACrms                                                                                  |
| Isolate Impedance                      | 10G $\Omega$                                                                                                                                                                                                                             | 10G $\Omega$                                                                                                                                                                                                                                                         | 10G $\Omega$                                                                                                                                                                                             | 10G $\Omega$                                                                                                                                                               | 10G $\Omega$                                                                                                                     | 10G $\Omega$                                                                               |
| Dielectric Strength Input -Output      | 4000VACrms                                                                                                                                                                                                                               | 4000VACrms                                                                                                                                                                                                                                                           | 4000VACrms                                                                                                                                                                                               | 4000VACrms                                                                                                                                                                 | 02~04DD:2500Vrms<br>05~100DD:4000VACrms                                                                                          | 4000VACrms                                                                                 |
| Dielectric Strength Input, Output-Case | 02~06DA:N/A<br>10~100DA:2500VACrms                                                                                                                                                                                                       | 02~06DA-H:N/A<br>10~100DA-H:2500VACrms                                                                                                                                                                                                                               | 02~06AA:N/A<br>10~100AA:2500VACrms                                                                                                                                                                       | 2500VACrms                                                                                                                                                                 | 02~04DD:N/A<br>05~75DD:2500VACrms                                                                                                | 2500VACrms                                                                                 |
| Turn On Time                           | LESS 2mSec                                                                                                                                                                                                                               | LESS 2mSec                                                                                                                                                                                                                                                           | LESS 2mSec                                                                                                                                                                                               | LESS 2mSec                                                                                                                                                                 | LESS 2mSec                                                                                                                       | LESS 2mSec                                                                                 |
| Turn Off Time                          | LESS 1/2 AC CYCLE                                                                                                                                                                                                                        | LESS 1/2 AC CYCLE                                                                                                                                                                                                                                                    | LESS 1/2 AC CYCLE                                                                                                                                                                                        | LESS 1/2 AC CYCLE                                                                                                                                                          | LESS 1/2 CYCLE                                                                                                                   | LESS 1/2 CYCLE                                                                             |
| Capacitance In-Out                     | LESS 15 pF                                                                                                                                                                                                                               | LESS 15 pF                                                                                                                                                                                                                                                           | LESS 15 pF                                                                                                                                                                                               | LESS 15 pF                                                                                                                                                                 | LESS 15 pF                                                                                                                       | LESS 15 pF                                                                                 |
| Max 1-Cycle Peak Surge                 | ASR-02DA:20A<br>ASR-03DA:30A<br>ASR-04DA:40A<br>ASR-05DA:50A<br>ASR-06DA:60A<br>ASR-10DA:100A<br>ASR-15DA:150A<br>ASR-25DA:250A<br>ASR-40DA:400A<br>ASR-50DA:500A<br>ASR-75DA:750A<br>ASR-90DA:900A<br>ASR-100DA:1KA<br>ASR-125DA:1.25KA | ASR-02DA-H:20A<br>ASR-03DA-H:30A<br>ASR-04DA-H:40A<br>ASR-05DA-H:50A<br>ASR-06DA-H:60A<br>ASR-10DA-H:100A<br>ASR-15DA-H:150A<br>ASR-25DA-H:250A<br>ASR-40DA-H:400A<br>ASR-50DA-H:500A<br>ASR-75DA-H:750A<br>ASR-90DA-H:900A<br>ASR-100DA-H:1KA<br>ASR-125DA-H:1.25KA | ASR-02AA:20A<br>ASR-04AA:40A<br>ASR-06AA:60A<br>ASR-10AA:100A<br>ASR-15AA:150A<br>ASR-25AA:250A<br>ASR-40AA:400A<br>ASR-50AA:500A<br>ASR-75AA:750A<br>ASR-90AA:900A<br>ASR-100AA:1KA<br>ASR-125AA:1.25KA | ASR-10AA-H:100A<br>ASR-15AA-H:150A<br>ASR-25AA-H:250A<br>ASR-40AA-H:400A<br>ASR-50AA-H:500A<br>ASR-75AA-H:750A<br>ASR-90AA-H:900A<br>ASR-100AA-H:1KA<br>ASR-125AA-H:1.25KA | ASR-02DD:3A<br>ASR-04DD:8.5A<br>ASR-05DD:25A<br>ASR-10DD:50A<br>ASR-25DD:100A<br>ASR-40DD:200A<br>ASR-50DD:250A<br>ASR-75DD:375A | ASR-10DD-H:50A<br>ASR-25DD-H:100A<br>ASR-40DD-H:200A<br>ASR-50DD-H:250A<br>ASR-75DD-H:375A |

## OUTLINE DIMENSIONS : mm



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