

Accessories



Insulation barrier unit

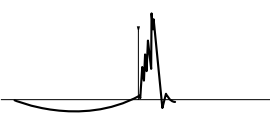
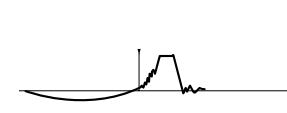
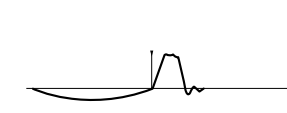
| Applying contactors | Type | Remarks |
|---|--------|------------------------------|
| CGC-100, 125, 150 type (100 to 150A frame) | AI-100 | 4 pcs required per contactor |
| CGC-180, 220, 300, 400 type (180 to 400A frame) | AI-180 | |
| CGC-600, 800 type (600, 800A frame) | AI-600 | |

Surge absorber unit



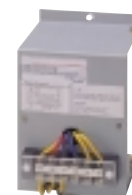
| Type of element | Applying contactors | Operation voltage | Element spec. | Type |
|---------------------------|--|-------------------|---------------------------------|-------|
| Varistor ① | All types CGC-9 to 800 (9 to 800A frame) | AC/DC 24~48V | Varistor 120V | AS-11 |
| | | AC/DC 100~125V | Varistor 270V | AS-12 |
| | | AC/DC 200~240V | Varistor 470V | AS-13 |
| | | AC380~440V | Varistor 1000V | AS-14 |
| CR + Varistor ② | CGC-9A to 85 (9 to 85A frame with AC coil) | AC24~48V | Varistor 120V 0.1 μF, 100 Ω | AS-1 |
| | | AC100~125V | Varistor 270V 0.1 μF, 100 Ω | AS-2 |
| | | AC200~240V | Varistor 470V 0.1 μF, 100 Ω | AS-3 |
| | CGC-9D to 85 (9 to 85D frame with DC coil) | DC24~48V | Varistor 120V 0.47 μF, 100 Ω | AS-4 |
| | | DC100~125V | Varistor 270V 0.47 μF, 100 Ω | AS-5 |
| | | DC200~220V | Varistor 470V 0.47 μF, 100 Ω | AS-6 |

Comparison

| Without surge unit | ① With Varistor unit | ② With CR+Varistor unit |
|---|---|---|
| Surge voltage, arise when the coil is off, may provoke mis-operation and damage in the circuit. | Varistor has an effect to cut down the peak voltage | Varistor has an effect to cut down the peak voltage and high frequency wave |
|  |  |  |

Delayed opening device

Delayed opening device prevents the inadvertent opening of a contactor in the event of a wide voltage drop or brief supply voltage interruptions of control power for 1 to 4 seconds.



| Applying contactors | Type | Control voltage | |
|---|--------|------------------------|----------------|
| CGC-9D, 12, 18, 22, 32, 40 type (9 to 40A frame with DC coil) | AD-9 | Delayed opening device | Contactor coil |
| CGC-50D, 65, 75, 85 type (50 to 85A frame with DC coil) | AD-50 | | |
| CGC-100, 125, 150, 180, 220 type (100 to 220A frame) | AD-100 | AC100~110V | DC100/110V |
| CGC-300, 400 type (300 to 400A frame) | AD-300 | AC200~220V | DC200/220V |
| CGC-600, 800 type (600, 800A frame) | AD-600 | | |

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Pneumatic timer

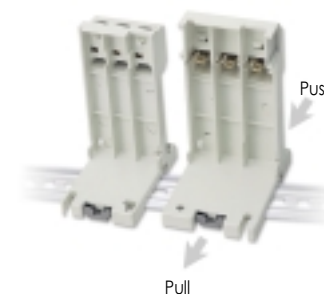
| Delay type | Setting range | Type | Remarks |
|------------------|----------------|-------|--|
| ON delay | 0.1 to 30 sec. | AT-1N | Applying contactors : CGC-9 to 85 (9 to 85A frame, 3 and 4 pole) Auxiliary contact : 1NO+1NC |
| | 10 to 180 sec. | AT-2N | |
| OFF delay | 0.1 to 30 sec. | AT-1F | |
| | 10 to 180 sec. | AT-2F | |

Lug terminals for Contactors

| Applying contactors | Type | | Remarks |
|---|------------|------------|---------|
| | for 3 Pole | for 4 Pole | |
| CGC-100, 125 type (100, 125A frame) | AJ100 | AJ180 | |
| CGC-150 type (150A frame) | AJ150 | AJ180 | |
| CGC-180, 220 type (180, 220A frame) | AJ180 | AJ180 | |
| CGC-300, 400 type (300, 400A frame) | AJ300 | | |
| CGC-600, 800 type (600, 800A frame) | AJ600 | | |

Separate mounting unit

In case of installing the overload relays independently, the separate mounting kits are available for screw or 35mm Din-rail mounting.



| Type | Applied TOR |
|---------------|-------------|
| AZ-22H | CGT(H)-22 |
| AZ-40H | CGT(H)-40 |
| AZ-85H | CGT(H)-85 |

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