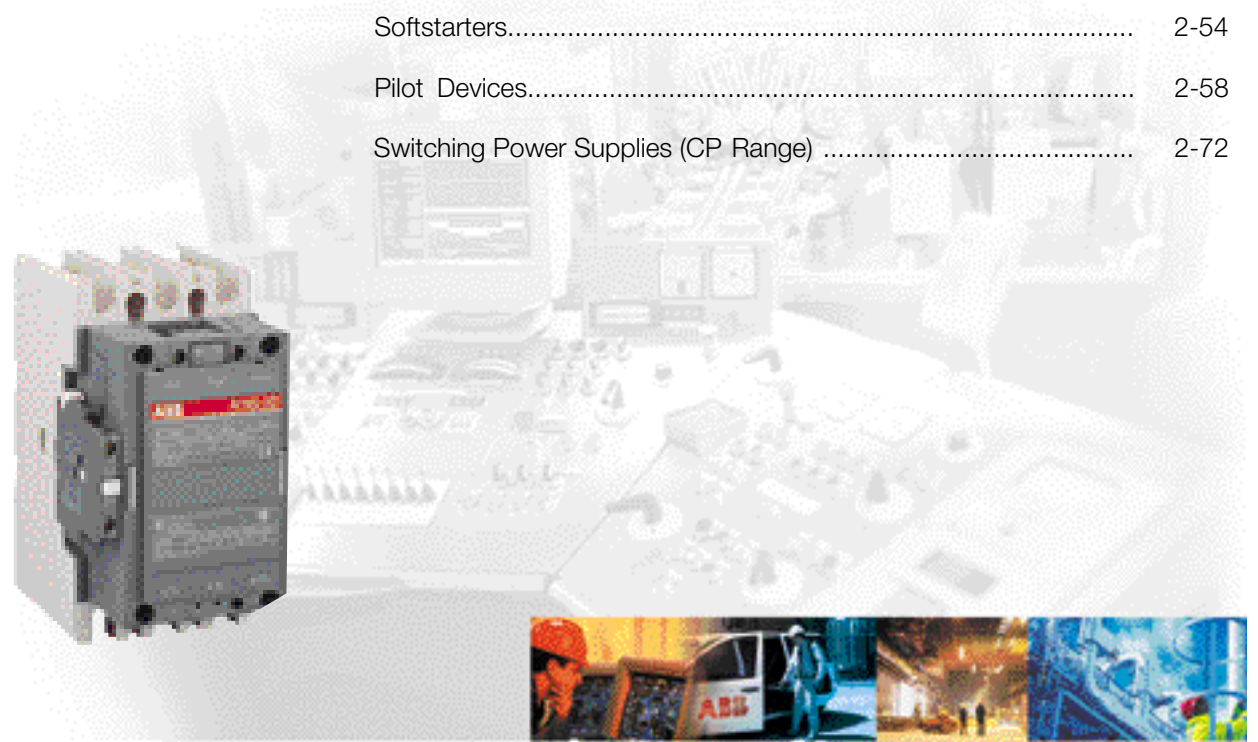
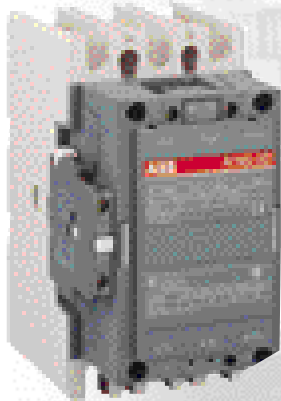


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A., AF., 3-pole Contactors



a.c. Circuit Switching

Switching of 3-phase Cage Motors

AC-3 utilization category
When making, the motor current is about $6 \times I_n$.
Breaking while the motor is running at I_n motor F.L.C.

| | |
|---------------------------------------|--|
| AC-3 Power rating | ≤ 55 °C, 400 V |
| AC-3 Rated operational current | ≤ 55 °C, 400 V ≤ 55 °C, 415 V ≤ 55 °C, 690 V |

| | A9 | A12 | A16 | A26 | A30 | A40 |
|----|----|-----|-----|-----|-----|------|
| kW | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 |
| A | 9 | 12 | 17 | 26 | 32 | 37 |
| A | 9 | 12 | 17 | 26 | 32 | 37 |
| A | 7 | 9 | 10 | 17 | 21 | 25 |

Switching of Resistive Circuits

AC-1 utilization category
When making, the switched-on current is equal to the I_n load rated current with $\cos \phi = 0.95$.

| | |
|---------------------------------------|-------------------------------|
| AC-1 Rated operational current | ≤ 40 °C ≤ 55 °C ≤ 70 °C |
| With conductor cross-sectional area | mm ² |
| Rated operational voltage | V |

| | A9 | A12 | A16 | A26 | A30 | A40 |
|-----------------|-----|-----|-----|-----|-----|-----|
| A | 25 | 27 | 30 | 45 | 55 | 60 |
| A | 22 | 25 | 27 | 40 | 55 | 60 |
| A | 18 | 20 | 23 | 32 | 39 | 42 |
| mm ² | 2.5 | 4 | 4 | 6 | 10 | 16 |
| V | 690 | | | | | |

3-pole contactors

Selection & Ordering

- Select contactor type.
- Select contactor coil voltage on cover folding page 0/1, according to control circuit supply. (Please quote coil voltage in plain text).

| Control circuit supply | Types | A9-30-10 | A12-30-10 | A16-30-10 | A26-30-10 | A30-30-10 | A40-30-10 |
|------------------------|--|-----------|------------|------------|------------|------------|------------|
| a.c. | Control circuit supply | | | | | | |
| a.c. & d.c. | Control circuit supply (Electronic coil interface) | - | - | - | - | - | - |
| d.c. | Control circuit supply | AE9-30-00 | AE12-30-00 | AE16-30-00 | AE26-30-00 | AE30-30-00 | AE40-30-00 |

Contactor Main Accessories

Selection & Ordering

- Select accessory type and quote required data in plain text.

| Accessory | Types | CA 5-10 | CA 5-01 |
|---------------------------|---|--|---------------------------------|
| Auxiliary contacts | CA 5-..., 1-pole CAL 5-..., 2-pole | 1-pole, front mounting | 1-pole, front mounting |
| Timers | TP..., Pneumatic TE..., Electronic Supply voltages: 24 V a.c./d.c., 110 ... 120; 220 ... 240; 380 ... 440 V a.c. | TP 40 DA, TP 180 DA Direct timing - Front mounting | TP 40 TE5S Direct timing - Inde |
| Interlocks | VE 5-., Mechanical / Electrical VM..., Mechanical mounting between 2 contactors | VE 5-1 | VM 5-1 |
| Surge suppressors | RV., (Varistor) a.c./d.c. RC., (Capacitor) a.c. | RV 5 | RC 5-1 |

Protection of 3-phase motors

Selection & Ordering

- Select O/L relay type and setting range according to motor F.L.C.

| O/L relays | Types & setting range in Amps | TA 25 DU... | TA 42 DU... |
|--|-------------------------------|--|---|
| TA..DU., Thermal O/L relay E..DU., Electronic O/L relay Standard starting time 2 ... 10 s tripping class 10 A | | 0.10...0.16 0.16...0.25 0.25...0.40 0.40...0.63 0.63...1.0 | 1.0...1.4 1.3...1.8 1.7...2.4 2.2...3.1 2.8...4.0 |
| | | 3.5...5.0 4.5...6.5 6.0...8.5 7.5...11 10...14 | 13...19 18...25 24...32 |
| | | | 22...32 29...42 |
| | | Please consult us for electronic solution | |

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