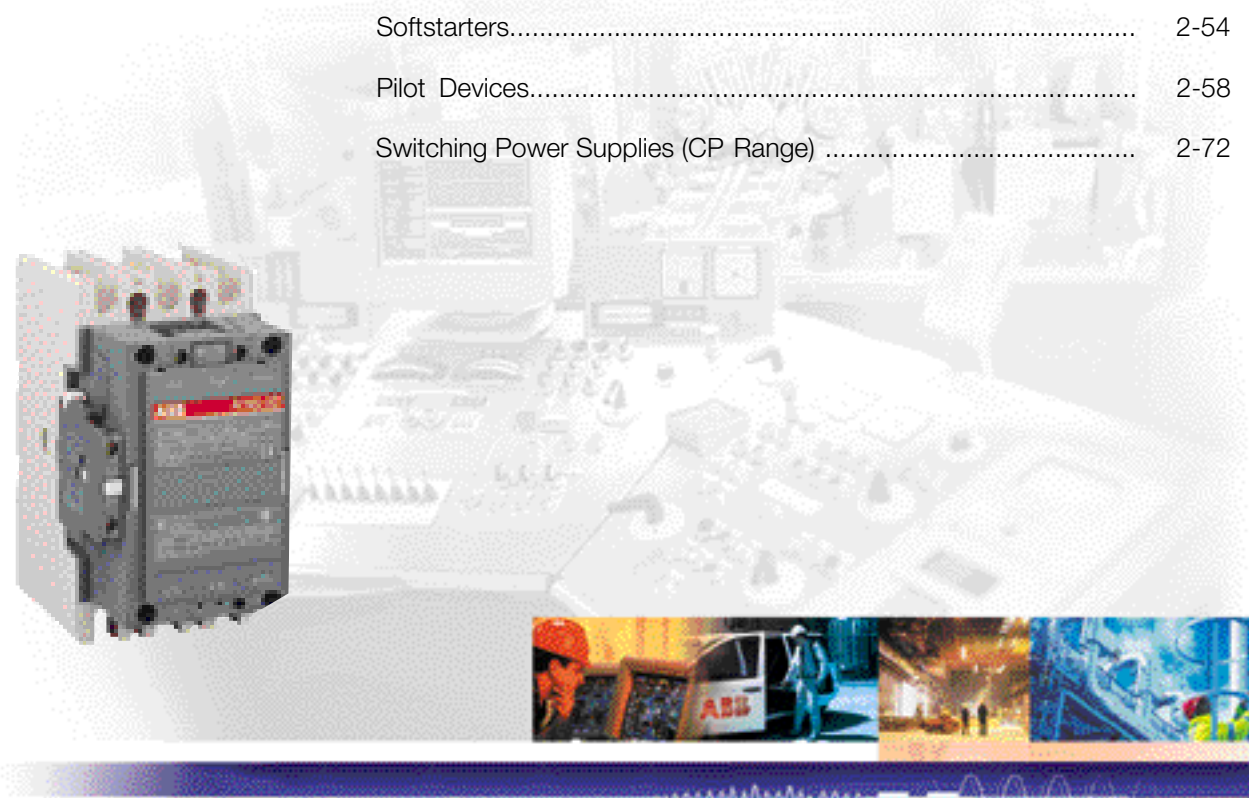
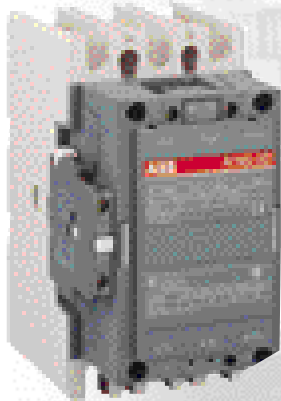


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# A., AF., 3-pole Contactors



## 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.

<b>AC-3</b>	Power rating	≤ 55 °C, 400 V
<b>AC-3</b>	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  $\cos \phi = 0.95$ .

<b>AC-1</b>	Rated operational current	≤ 40 °C ≤ 55 °C ≤ 70 °C
	With conductor cross-sectional area	mm <sup>2</sup>
	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 <sup>2</sup>	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.

<b>Auxiliary contacts</b>	CA 5-..., 1-pole CAL 5-..., 2-pole	Types	CA 5-10 1-pole, front mounting CA 5-01 1-pole, front
<b>Timers</b>	TP..., Pneumatic TE..., Electronic Supply voltages: 24 V a.c./d.c., 110 ... 120; 220 ... 240; 380 ... 440 V a.c.	Types	TP 40 DA, TP 180 DA Direct timing - Front mounting TP 40 TE5S Direct timing - Inde
<b>Interlocks</b>	VE 5-., Mechanical / Electrical VM..., Mechanical mounting between 2 contactors	Types	VE 5-1 VM 5-1
<b>Surge suppressors</b>	RV., (Varistor) a.c./d.c. RC., (Capacitor) a.c.	Types	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..DU., Thermal O/L relay E..DU., Electronic O/L relay Standard starting time 2 ... 10 s tripping class 10 A	<table border="1"> <thead> <tr> <th>TA 25 DU...</th> <th>TA 42 DU...</th> </tr> </thead> <tbody> <tr> <td>0.10...0.16</td> <td>1.0...1.4</td> </tr> <tr> <td>0.16...0.25</td> <td>1.3...1.8</td> </tr> <tr> <td>0.25...0.40</td> <td>1.7...2.4</td> </tr> <tr> <td>0.40...0.63</td> <td>2.2...3.1</td> </tr> <tr> <td>0.63...1.0</td> <td>2.8...4.0</td> </tr> <tr> <td></td> <td>3.5...5.0</td> </tr> <tr> <td></td> <td>4.5...6.5</td> </tr> <tr> <td></td> <td>6.0...8.5</td> </tr> <tr> <td></td> <td>7.5...11</td> </tr> <tr> <td></td> <td>10...14</td> </tr> <tr> <td></td> <td>13...19</td> </tr> <tr> <td></td> <td>18...25</td> </tr> <tr> <td></td> <td>24...32</td> </tr> <tr> <td></td> <td>22...32</td> </tr> <tr> <td></td> <td>29...42</td> </tr> </tbody> </table> <p>Please consult us for electronic solution</p>	TA 25 DU...	TA 42 DU...	0.10...0.16	1.0...1.4	0.16...0.25	1.3...1.8	0.25...0.40	1.7...2.4	0.40...0.63	2.2...3.1	0.63...1.0	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
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