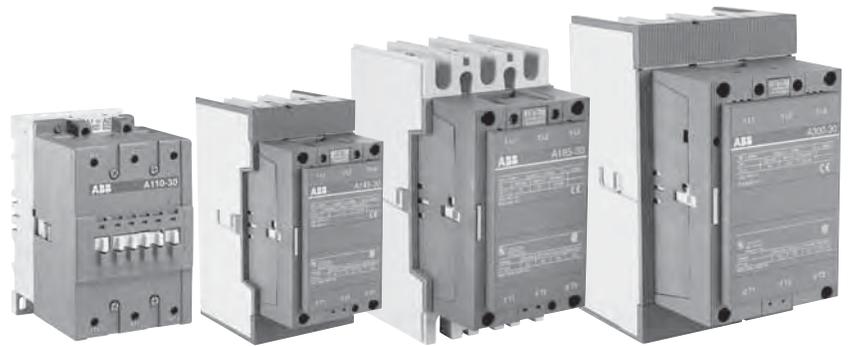


Welding isolation Contactors



Welding isolation contactors



Applications

ABB welding isolation contactors are suited to the rugged demands set forth by the automotive industry and are specifically designed for use in high current welding applications. ABB is the leading contactor supplier for automotive welding applications.

Features

- Includes sizes:
 - W3 thru W6 in 3 pole configurations
 - W4 thru W5 in 2 pole configurations
 - Unique contact design assures reliable and safe operation during high current welding cycles
 - 1 N.O. & 1 N.C. auxiliary contacts are standard and up to 6 additional auxiliary contacts may be added to provide a total of 8 (4 N.O. & 4 N.C.)
 - Easy front removal of arc chute for quick inspection and change of contacts
 - Operates over an extended voltage range of 85% to 110% of rated control voltage
 - UL Listed, File # E79416
 - CSA Certified, File # LR19700
- AW welding isolation contactors can save substantial space compared to other conventional contactors.

140A – 600A 2 & 3 Pole



A110W



A300W



AF460W

3-Pole, A.C.

Size	Amp rating	Catalog number	List price
W3	140	A110W-30-11-84	\$ 480
—	200	A145W-30-11-84	825
W4	250	A185W-30-11-84	1290
—	300	A210W-30-11-84	1635
W5	350	A260W-30-11-84	1815
—	400	A300W-30-11-84	1875
W6	600	AF460W-30-11-70	4425

2-Pole, A.C.

Size	Amp rating	Catalog number	List price
W3	140	—	—
—	200	A145W-20-11-84	\$ 750
W4	250	A185W-20-11-84	1180
—	300	A210W-20-11-84	1500
W5	350	A260W-20-11-84	1675
—	400	A300W-20-11-84	1750
W6	600	—	—

Coil voltage selection – wide range AC/DC coils for AF contactors

All AC operated catalog numbers include a 100-250 V AC/DC coil. To select other coil voltages, substitute the code from the Coil Voltage Selection Chart for the two digits after the last dash in the catalog number.

Ex.: A 24V coil is required for a AF460W contactor: AF460W-30-11-68

Coil voltage selection – A contactors

All AC operated catalog numbers include a 120VAC coil. To select other coil voltages, substitute the code from the Coil Voltage Selection Chart for the two digits after the last dash in the catalog number.

Ex.: A 240V coil is required for an A75 contactor: A75-30-11-80

Auxiliary contact blocks

For additional auxiliary contact blocks, see catalog number explanation on page 1.2. Add \$ 20 to list price for each additional auxiliary, and see page 1.18 for available combinations.

Vertical connection bars between 2 pole contactor and MCCB – two bars

MCCB	For contactor	Catalog number	List price
S3, S4	A145W-20 – A185W-20	BEA185-20D/S3S4	\$ 50
S3,S4	A210W-20 – A300W-20	BEA210-20D/S4	55
S5	A210W-20 – A300W-20	BEA300-20D/S5	60

For other accessories, see page 1.16 to 1.35.

Coil voltage selection chart – A contactors

Hz	Cntr type	Volts															
		12	24	48	110	120	125	208	220	240	277	380	415	440	480	500	600
60	A		81	83	84	84		34	36	80	42		86	86	51	53	55
50	A		81	83	84				80				85	86			55

For other voltages, see page 1.26.

Coil voltage selection – AF50 to AF750

AC/DC VOLTS, 40 - 60 HZ			
24 - 60 DC	20 - 60 DC	48 - 130 AC/DC	100 - 250 AC/DC
68 ①	72 ②	69	70

① AF400 – AF750, DC only.

② AF50 – AF300, DC only.

Welding Isolation Contactors

Applications

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Ordering Details, 3 pole, A.C.

Size	Amp rating	Auxiliary contacts 	Catalog number state coil voltage code □□ (see table below)	List Price
W3	140	1 1	A110W-30-11-□□	
–	200	1 1	A145W-30-11-□□	
W4	250	1 1	A185W-30-11-□□	
–	300	1 1	A210W-30-11-□□	
W5	350	1 1	A260W-30-11-□□	
–	400	1 1	A300W-30-11-□□	
W6	600	1 1	AF460W-30-11-□□	

Ordering Details, 2 pole, A.C.

Size	Amp rating	Auxiliary contacts 	Catalog number state coil voltage code □□ (see table below)	List Price
–	200	1 1	A145W-20-11-□□	
W4	250	1 1	A185W-20-11-□□	
–	300	1 1	A210W-20-11-□□	
W5	350	1 1	A260W-20-11-□□	
–	400	1 1	A300W-20-11-□□	

Coil voltages and codes: A 110W ... A 300W

Voltage 50Hz	Voltage 60Hz	Code □□
24	24	8 1
48	48	8 3
110	110 ... 120	8 4
220 ... 230	230 ... 240	8 0
400 ... 415	480	5 1
500	600	5 5

☞ Other voltages: page 0/1.

Coil voltages and codes: AF 460W

Voltage 50/60Hz	Voltage V d.c.	Code □□
–	24 ... 60	6 8 ⁽¹⁾
48 ... 130	48 ... 130	6 9
100 ... 250	100 ... 250	7 0

(1) The connection polarities indicated close to the coil terminals must be respected: **A1** for the **positive** pole and **A2** for the **negative** pole.

AF... contactors with electronic coil interface: electromagnetic compatibility and **A** or **B environment** definitions ☞ page 2/9.

