
**Description**  
**Type DA**

- 60 amps size
- 500 volt DC ratings
- 160 and 300 volt DC normal closed ratings for dynamic braking
- Low energy auxiliary contacts available (17V, 5mA)
- Mechanically interlocked version available for reversing applications
- Small compact design
- 2 pole (2 N.O.) and 3 pole (2 N.O. & 1 N.C.) available
- Additional auxiliary contact blocks available
- Auxiliary contacts available to meet elevator standards
- Fast, snap-on DIN rail mounting
- Double break contact design
- Captive terminal screws
- Touch-safe design: all connection terminals are protected against accidental touch
- Terminals supplied open for ease of wiring
- Operates over an extended voltage range of 85% to 110% of rated control voltage
- N.C. dynamic braking pole is easily added to two pole contactors
- Screwdriver guide holes
- Snap-on front mounted accessories
- UL and CSA approved

**Type EHDB**

- 220 amps to 960 amps
- 2 pole (2 N.O.) and 3 pole (2 N.O. & 1 N.C.) power poles available
- 600 VDC making capacity: 300 VDC breaking capacity
- 1 N.O. & 1 N.C. auxiliary contacts are standard and up to six additional auxiliary contacts may be added to provide a total of 8 (4 N.O. & 4 N.C.)
- Early make & late break auxiliary contacts available
- Auxiliary contacts available to meet elevator standards
- EHDB 220, 280 & 360 contactors have withdrawable coils
- Mechanically interlocked contactors available for reversing applications
- Double break contact design with magnetic arc chamber extinguishes arc in shortest possible time
- High temperature encapsulated coil
- Easy 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
- DC control operation available
- UL & CSA approved  
UL File # E79416  
CSA File # LR19700

# Type DA 60 Amps



DA75-21A-11-84

### 2 & 3 pole — 500 volt N.O. ratings with 160 volt N.C. dynamic braking rating

Thermal amp rating	Maximum amp rating N.C. contact		Auxiliary contacts included		2 pole (2 N.O.)		3 pole (2 N.O. & 1 N.C.)	
	Make 300 VDC	Break 160 VDC	N.O.	N.C.	Catalog number	List price	Catalog number	List price
60	90	55	2 1	1 1	— DA75-20-11-84	— 310	DA75-21-21-84 —	\$ 385 —

### 3 pole — 500 volt N.O. ratings with 300 volt N.C. dynamic braking rating

Thermal amp rating	Maximum amp rating N.C. contact		Auxiliary contacts included		3 pole (2 N.O. & 1 N.C.)	
	Make 500 VDC	Break 300 VDC	N.O.	N.C.	Catalog number	List price
60	90	55	1	1	DA75-21A-11-84	\$ 430

NOTE: DA75 2 & 3 pole contactors are equipped with polarity-dependent N.O. contacts.

### Description

DA drive contactors are specifically designed for use with solid state D.C. adjustable speed drive systems. In drive applications, the contactor is not required to make or break the load during normal operation. The N.C. contact is used for dynamic braking applications.

### Coil voltage selection

All DC operated catalog numbers include a 24VDC 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 an DA75 contactor: DA75-20-11-81

### Coil voltage selection chart

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	

NOTE: DC coils are available for DA75 contactors only. For other voltages, see page 1.26.

### Additional auxiliary contacts

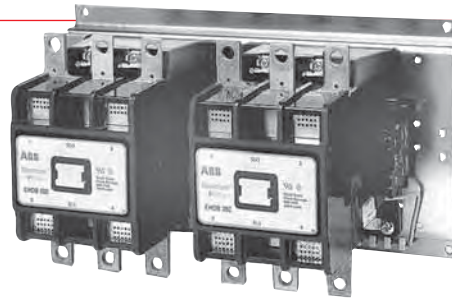
Contactor number	Number of auxiliary contacts that may be added to DA contactors
DA75-21-21-84	(1 – 2) CA5 & (1) CAL5 Aux
DA75-20-11-84	(1) DB Adder deck & (2) CA5 & (1) CAL5 Aux

### Auxiliary contact block adders

Top mounted for DA9 – DA75	Catalog number	List price
N.O.	CA5-10	\$ 15
N.C.	CA5-01	
1 N.O. & 1 N.C.	CAL5-11	30

All above auxiliary contact blocks fulfill the mirror contacts standards in IEC609 47-1 Annex F, Positive driven action IEC 609 47-1, Chapter 4. They also fulfill elevator standard ASME A17-1-2000.

## Type DA & EHDB, mechanically interlocked 60 to 960 Amps



EHDB280M-1L

### 2 & 3 pole — 600 volt N.O. ratings with 300 volt N.C. dynamic braking rating

Thermal amp rating 500V (DA) 600V (EHDB)	Maximum amp rating N.C. contact		Auxiliary contacts included each contactor		2 pole (2 N.O.)		3 pole (2 N.O. & 1 N.C.)	
	Make	Break	3 Pole N.O.	2 Pole N.C.	Catalog number	List price	Catalog number	List price
60	90	55	1 NO & 1 NC	1 NO & 1 NC	DA75M-20-11-84	\$ 780	DA75M-21A-11-84	\$ 935
220	450	285	1 NO & 1 NC	1 NO & 1 NC	EHDB220M2P-1L	1653	EHDB220M-1L	2253
280	565	363	1 NO & 1 NC	1 NO & 1 NC	EHDB280M2P-1L	2148	EHDB280M-1L	2838
380	728	472	1 NO & 1 NC	1 NO & 1 NC	EHDB360M2P-1L	4296	EHDB360M-1L	6036
520	1040	680	1 NO & 1 NC	1 NO & 1 NC	EHDB520M2P-1L	4986	EHDB520M-1L	7236
650	1300	850	1 NO & 1 NC	1 NO & 1 NC	EHDB650M2P-1L	8391	EHDB650M-1L	9786
800	1600	1050	1 NO & 1 NC	1 NO & 1 NC	EHDB800M2P-1L	10,266	EHDB800M-1L	11,976
950	1920	1250	1 NO & 1 NC	1 NO & 1 NC	EHDB960M2P-1L	12,816	EHDB960M-1L	14,976

DA75 contactors are equipped with polarity dependent N.O. contacts. EHDB contactors are equipped with polarity dependent N.C. contacts.

#### Description

EHDB mechanically interlocked drive contactors are designed for reversing applications. The complete assembly consists of two mechanically and electrically interlocked contactors supplied without control and power wiring. The coil voltage selection

#### Coil voltage selection

##### Type DA

All DC operated catalog numbers include a 24VDC 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 an DA75M contactor: DA75M-20-11-81

##### Type EHDB

All catalog numbers include a 120V coil. To select other coil voltages, substitute the code from the coil voltage selection chart for the first digit after the dash in the catalog number.

Ex.: A 220V coil is required for an EHDB960M contactor: EHDB960M2P-2L

#### Coil voltage selection chart – DA 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

NOTE: DC coils are available for DA75 contactors only.

For other voltages, see page 1.26.

#### Coil voltage selection chart – EHDB contactors

	Volts														
	24	48	110	120	125	208	220	240	277	380	415	440	480	500	600
60	F	G		1		B	2	2	C				3	4	6
50	N		1				J			3	4			6	
DC	Y	W	P		O		R								

NOTE: For other voltages, consult factory. • 24VAC coils are not available for sizes EHDB520 – EHDB960. • 48VAC coils are not available for sizes EHDB520 – EHDB960. For these 24V and 48V applications, use an interposing control relay. • 12VDC coils are not available for EHDB520 – EHDB960.

#### DC magnet coils (per contactor)

Contactor size	List price
EHDB220M – EHDB280M	510
EHDB360M	570
EHDB520M	720
EHDB650M – EHDB960M	990