

SERIES D DISCONNECT SWITCHES

16 Amp - 1000 Amp
600 & 1000 Volt

Load Make/Load Break
Positive Opening
Compact Size
Modular Construction
Horse Power Rated
Custom Versions

Featuring:

- Auto Alignment Shaft
- Wide Handle Selection
 - Add-on Auxiliary
 - Add-on Power Poles
 - Add-on Neutral Bar
 - Add-on Neutral Pole
- Under Voltage Trip Option

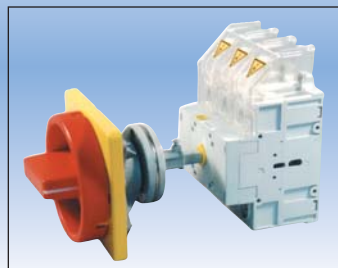
OTHER AVAILABLE ET PRODUCTS:
CAM SWITCHES 25-1200 AMP



SERIES D DISCONNECTS

Machine Safety Disconnect Option

FEATURING
HANDLE-SHAFT
SELF-ALIGNING SYSTEM



ELECTRICAL & ELECTRONIC
CONTROLS, INC.
3881 DANBURY ROAD
BREWSTER, NY 10509
845-278-5777 FAX 845-278-5444
E-MAIL: info@eecontrols.com
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ELEKTRA PRODUCTS

DISCONNECTS
to 600 AMPS

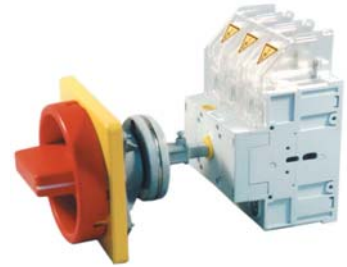
DISCONNECT SWITCHES

16-630 AMP 3 / 4 POLE

16-150 AMP 6 POLE

Automatic handle - shaft alignment

(See page 201 for complete line of 25 amp switches)



UNDERVOLTAGE TRIP DISCONNECTS

30 - 150 AMP FOR MACHINE SAFETY

(Pages 191-198)



CAM SWITCHES

25-250 AMP, up to 12 - pole,




12 switching positions

Custom Cam Switches

Built to your Specs

(See catalog section VN)

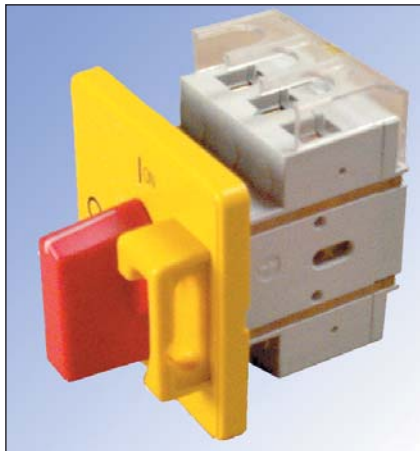


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I ↑ ON OFF	Multi - Position		
→ O	<i>See Bulletin VN</i>		
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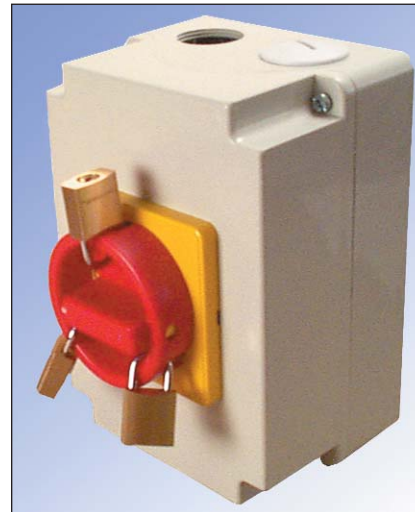
DISCONNECTS to 600 AMPS

MAIN DISCONNECTS

EMERGENCY-OFF SWITCHES



MOTOR DISCONNECTS



DISCONNECTS
to 600 AMPS



DISCONNECTS
WITH UV TRIP



630 AMP

TYPE D DISCONNECTS



- FULL LINE
- EMERGENCY / MAIN DISCONNECTS
- 16 AMP THROUGH 630 AMP (600 VOLT)
- FLEXIBLE SHAFT ALIGNMENT
- 3-POLE, 4-POLE, 6-POLE
- OPEN.....ENCLOSED
- COMPLETE OPERATOR
- HANDLE SELECTIONS

- RED, YELLOW, FOR EMERGENCY DISCONNECTS
- BLACK-GREY FOR MAIN MOTOR DISCONNECTS
- PADLOCK OFF WITH ONE OR THREE PADLOCKS



EXTRA
AUXILIARIES



4th POLE
SWITCH NEUTRAL



NEMA 4X

FULL ACCESSORY PACKAGE

FIELD KIT ACCESSORIES FOR SERIES D2 - D7

- ↗ AUXILIARY INTERLOCK OPTIONS
- ↗ 1 N.O., 1 N.C., 1 N.O. / 1 N.C., 2 N.O., 2 N.C.
- ↗ GROUND TERMINAL
- ↗ NEUTRAL TERMINAL
- ↗ SWITCH NEUTRAL (4th POLE)

SAFETY STANDARDS - REQUIREMENTS, DISCONNECTS

- | | |
|--|--|
| <ul style="list-style-type: none"> ↪ OSHA LOCKOUT - TAG OUT ↪ NFPA 79 (ANSI) ↪ IEC INTERNATIONAL STANDARDS
IEC 204, IEC 947-3
EN 60 204
EN 60 947 | <ul style="list-style-type: none"> ↪ VDE 0113 ↪ UL/CSA THROUGH 250 AMP ↪ CE -DECLARATION OF CONFORMITY |
|--|--|

NFPA79

 (Also per ANSI and NEC)

13.2 Emergency stop devices
13.2.3 Actuators of emergency stop devices shall be colored **RED**.

As far as a background exists behind the device actuator, it shall be colored **YELLOW**.

OSHA

While the OSHA Lock Out - Tag Out requirement is commonly understood, color is also specified.

1910.144 Safety color code for marking physical hazards.

(iii)...Electrical switches which letter or other markings appear, used for emergency stopping of machinery shall be **RED**.

DISCONNECTS
to 600 AMPS

INTERNATIONAL SPECIFICATIONS. IEC...EN, EUROPEAN NORM. EN 60 204 PART 1

The VDE specifications 0113 part 1 apply to the electrical equipment of machines. They comply largely with the **IEC publication 204**. This standard includes the German version of the European standard **EN 60 204 part 1: 1992**.

From DIN VDE 0113, 3 types of switches result:

▲ Main Switch

Each power supply must be provided with a hand-operated main switch. This main switch must disconnect the machine from the power supply (e.g. for machine maintenance).

- ↪ It shall be designed as a switch disconnecter according to EN 60 947-3 to satisfy the exigencies of utilization category AC-23B.
- ↪ It shall be hand-operated and may have only one "off" and one "on" position.
- ↪ It shall have a visible isolation section or indication of switching position which can indicate the "off" position only if spacings according to EN 947-3 have been obtained between all contacts.
- ↪ **If the main switch will not be used simultaneously as emergency-off switch, its handle shall NOT be red. For the main switch, black or grey handles are recommended.**
- ↪ It shall be lockable in the "off" position (e.g. by using padlocks).
- ↪ The handle of the main switch shall be easy to reach and located between 0.6 and 1.9 m above the access level.
- ↪ The breaking ability must be sufficient to break at the same time the current of the largest motor of the machine at stall and the sum of the currents of all other motors and/or load circuits.

▲ Emergency -off Switch

Emergency-off mechanisms must be provided for each work station, where an emergency-off might be required. They must engage automatically and be easy to reach.

- ↪ The contacts of hand-operated emergency-off mechanisms shall disconnect simultaneously.
- ↪ **The operating elements shall be RED. The area behind the handles shall be colored YELLOW.**

▲ Main Switch = Emergency-off switch

For some machines which do not require emergency-off mechanisms the main switch may function as an emergency-off mechanism.

- ↪ In this case and for such disconnecting mechanisms the colors of the operating elements have to be the same as for the emergency-off mechanisms.

SAFETY REQUIREMENT UV TRIP DISCONNECTS

For personal safety, OSHA, ANSI, IEC and European standards; all require protection against automatic restarting after main line voltage failure.

VDE specifications 0113/
European standard EN 60 204 part 1, section 7.5 are specific:

“If automatic restarting can cause a dangerous condition, damage to the machine or to the working process, such as an automatic restart of the machine has to be avoided through the release of the undervoltage safety mechanism.”

Technical data as per UL/CSA, IEC 204, IEC 947-3, EN60 204, EN 60 947, VDE 0113

EMERGENCY / MAIN DISCONNECTS

Switch Size		D05	D1	D2	D3	DK4	D4	D5	D6	D7
Rated interrupted current Iu switch insert/Ith under enclosure	A	16	25	40/32	63/50	80	100	125	200/160	250
APPROVALS CANADA, USA, UL General use	600VAC max., 3 phase ~ A	16	25	40	63	80	100	125	200	250
Motor 3-phase	208V hp	3	5	5	10	15	15	15	30	40
	240V hp	3	5	7.5	10	20	20	25	40	50
	480V hp	7.5	7.5	15	25	40	40	50	75	100
	600V hp	7.5	7.5	15	30	50	50	50	50	60
Motor 1-phase	120V hp	1/2	1	1.5	3	3	3	3		
	240V hp	1 1/2	2	3	5	10	10	10		
Pilot Duty - Auxiliary switch UL/CSA	A600	A600	A600	A600	A600	A600	A600	A600	A600	A600
Rated insulating voltage III/ 3 EN 60 947 Ui	V	690	690	690	690	690	690	690	690	690
Rated impulse voltage rigidity III/ 3 EN 60 947 Uimp.	kV	6	6	6	6	6	6	6	6	6
Connectable Cross Sections single resp. multi-strand	mm ²	1-4	1-4	2.5-16	2.5-16	4-50	4-50	4-50	35-185	35-185
Fine wire with core end bush (DIN 46 228)	mm ²	0.75-2.5	0.75-2.5	1.5-16	1.5-16	4-35	4-35	4-35	35-120	35-120
For enclosure execution	mm ²	5 x 4	5 x 4	5 x 4	5 x 10	-	5 x 16 4 x 25	4 x 50	4 x 70	4 x 185
Short-circuit protection, fusible cut-out (gL)	A max.	35	35	50	63	80	100	125	200	250
Requirements for isolators complied with up to	V ~	500	500	690	690	690	690	690	690	690
Switching capacity										
AC-21A/B Load break switches Rated operating current Ie	A	16	25	40/32	63/50	80	100/80 ¹⁾	125	200/160	250
Rated operating voltage Ue	V ~	690	690	690	690	690	690	690	690	690
AC-23A/B Motor switches (main switches)	380..440V, 3 ~kW	7.5	7.5	15	22	30	37	45	90/75	132
AC-3 Motor switches, for operational switching	380..440V 3 ~kW	5.5	5.5	11	18.5	22	30	37	75	75
Auxiliary switches/Rated insulating voltage (III/3) Ui	V	690	690	690	690	690	690	690	690	690
Rated impulse voltage rigidity (III/3) Uimp.	kV	6	6	6	6	6	6	6	6	6
Thermal rated current Ith	A	12	12	12	12	12	12	12	12	12
AC-15 Rated operating current e at 220-010 / 380-440 / 500V	A	6/4/3	6/4/3	6/4/3	6/4/3	6/4/3	6/4/3	6/4/3	6/4/3	6/4/3
Short-circuit protection, fusible cut-out (gL)	A max.	16	16	16	16	16	16	16	16	16
Connectable cross sections single resp. multi strand	mm ²	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5
Fine wire with core end bush (DIN 46 228)	mm ²	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5
Wire ranges, AWG		16-10	16-10	12-4	12-4	10-40	10-40	10-40	2/350 mcm	2/350 mcm

¹⁾ See ordering pages

²⁾ With terminal lug

Main switches - Emergency-off switches - Maintenance switches

Rating Data 6 Pole D Disconnects with UV trip

DL8	DL9		R1	R2	R3	R4	R5	R6		S1	S2	S3	S4
400	630		25	32	50	63	115	150		25 ¹⁾	50 ¹⁾	80	150
-	-		-	-	-	-	-	-		-	-	-	-
-	-		-	-	-	-	-	-		-	-	-	-
-	-		-	-	-	-	-	-		-	-	-	-
-	-		-	-	-	-	-	-		-	-	-	-
A600	A600		A600	A600	A600	A600	A600	A600		A600	A600	A600	A600
1000	1000		690	690	690	690	690	690		690	690	690	690
8	8		6	6	6	6	6	6		6	6	6	6
2x240 ²⁾	2x240 ²⁾		-	-	-	-	-	-		1-4	2.5-10	4-16	10-50 ²⁾
-	-		-	-	-	-	-	-		1-2.5	1.5-6	4-16	-
4x240 ²⁾	2x4x240 ²⁾		5 x 4	5 x 6	5 x 10	5 x 16	4 x 35	4 x 50		-	-	-	-
400	630		35	35	63	80	125	160		25	50	80	160
1000	1000		500	500	690	690	690	690		690	690	690	690
400	630		25	32	50	63	115	150		25	50	80	150
690	690		690	690	690	690	690	690		690	500	500	500
200	200		7.5	15	22	30	55	75		7.5	15	37	37
-	-		5.5	11	15	22	37	55		7.5	15	37	37
500	500		690	690	690	690	690	690		500	500	500	-
4	4		6	6	6	6	6	6		4	4	4	-
25	25		12	12	12	12	12	12		16	16	16	-
9/6/5	9/6/5		6/4/3	6/4/3	6/4/3	6/4/3	6/4/3	6/4/3		6/4/3	6/4/3	6/4/3	-
25	25		16	16	16	16	16	16		16	16	16	-
0.75-4	0.75-4		0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5		0.5-2.5	0.5-2.5	0.5-2.5	-
0.75-.25	0.75-.25		0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5		0.5-2.5	0.5-2.5	0.5-2.5	-

¹⁾ See ordering pages

²⁾ With terminal lug

DISCONNECTS to 600 AMPS

SERIES D PADLOCKABLE OPEN TYPE

BASE MOUNT WITH SAFETY DOOR INTERLOCK

16 - 250A

600 VOLT ON - OFF

FRONT PANEL DRILLING D05 - 5
BY-1 Operator 22MM Hole Mounting



SIZE UNIT	RATED CURRENT		WITH BE OPERATOR		WITH D OPERATOR		
	I _{TH} AMPS	UL/CSA GENERAL PURPOSE (INDUCTIVE) AMPS	CATALOG NUMBER (1 PADLOCK)	LIST PRICE	CATALOG NUMBER (3 PADLOCK)	LIST PRICE	
3 POLE 8" Adjustable mounting depth as standard	D05	16	16	E D05-3BE 1 SD-*	\$68	E D05-3D 3SD-*	\$75
	D1	25	25	E D1-3BE 1 SD-*	74	E D1-3D 3 SD-*	81
	D2	40	40	E D2-3BE 3 SD-*	106	E D2-3D 3 SD-*	113
	D3	63	63	E D3-3BE 3 SD-*	125	E D3-3D 3 SD-*	132
	DK4	80	80	E DK4-3BE 4 SD-*	156	E DK4-3D 4 SD-*	168
	D4	100	100	E D4-3BE 4 SD-*	184	E D4-3D 4 SD-*	196
	D5	125	125	E D5-3BE 4 SD-*	228	E D5-3D 4 SD-*	240
	D6	200	200	-	-	E D6-3D 5 SD-*	564
D7	250	250	-	-	E D7-3D 5 SD-*	788	

DISCONNECTS to 600 AMPS

DIMENSIONS:
See page 185.



BY-1 Operator

TYPE BY-1 OPERATOR HANDLE OPTION

To order, add **BY** in place of **BE** in catalog number. **Add \$10 List.** Includes safety door interlock. Use on D05...D5 **DEFEATABLE OPERATOR**

8" T DEPTH DIMENSION is standard on units sized **16-250Amp** with through the door safety interlock mechanism.

BY-1 ORDERED SEPARATELY \$35.00 List IP 67 Rated. Recommended for use on Type 1, 3R, 12, 4X Applications.

TYPE BY-1 Operator with Safety Door Interlock can be bypassed by qualified technician for servicing.

TO ORDER:

BY-1-*S1 = For sizes D05, D1, D2, D3

BY-1-*S2 = For sizes DK4, D4 & D5

(Replace asterick with color suffix)

Available in Black - SS and RG - Red/Yellow ONLY.

Ordering separately BY-1 includes patented misalign module, interlock key (for shaft) and bypass tool as standard.

Auxiliaries on page 179.

4 POLE 8" Adjustable mounting depth as standard	D05	16	16	E D05-4BE 1 SD-*	\$77	E D05-4D 3 SD-*	\$84
	D1	25	25	E D1-4BE 1 SD-*	82	E D1-4D 3 SD-*	84
	D2	40	40	E D2-4BE 3 SD-*	121	E D2-4D 3 SD-*	128
	D3	63	63	E D3-4BE 3 SD-*	140	E D3-4D 3 SD-*	147
	DK4	80	80	E DK4-4BE 4 SD-*	176	E DK4-4D 4 SD-*	181
	D4	100	100	E D4-4BE 4 SD-*	205	E D4-4D 4 SD-*	215
	D5	125	125	E D5-4BE 4 SD-*	245	E D5-4D 4 SD-*	260
	D6	200	200	-	-	E D6-4D 5 SD-*	640
D7	250	250	-	-	E D7-4D 5 SD-*	870	

* **SUFFIX:** Add -RG for Red-Yellow operator handle.
Add -SS for Black handle "D" type only.
Add -SI for Black-Silver operator "BE" handle.

To substitute **NON-auto-alignment** safety door interlock for the auto-alignment style, change SD in part# to SDV.

Deduct: D1-(-\$6) list
D2-(-\$14) list
D3-(-\$20) list

Catalog Number Code:

"SD" -Safety Door (Interlock Design)

"BE" -1 padlock type

"D" -3 padlock type

"BY-1" -1 padlock type

-last digit in part number indicates faceplate size.

Part # example: E D1-3BE 1 SD-RG; SD = safety door interlock design, BE = 1 padlock type, 1 = size 1 face plate, RG = Red-Yellow handle.

SERIES D BASE MOUNT



16 - 250A FRONT MOUNT



3 P O L E		WITH BE OPERATOR		WITH D OPERATOR		WITH BE OPERATOR		WITH D OPERATOR	
	AMPS	CATALOG NUMBER	LIST PRICE	CATALOG NUMBER	LIST PRICE	CATALOG NUMBER	LIST PRICE	CATALOG NUMBER	LIST PRICE
	16	E D05-3BE 1 BM-*	\$51	E D05-3D 3BM-*	\$58	E D05-3BE 1 FM-*	\$48	E D05-3D 3FM-*	\$55
	25	E D1-3BE 1 BM-*	53	E D1-3D 3 BM-*	60	E D1-3BE 1 FM-*	50	E D1-3D 3 FM-*	57
	40	E D2-3BE 3 BM-*	82	E D2-3D 3 BM-*	89	E D2-3BE 3 FM-*	79	E D2-3D 3 FM-*	86
	63	E D3-3BE 3 BM-*	106	E D3-3D 3 BM-*	113	E D3-3BE 3 FM-*	103	E D3-3D 3 FM-*	110
	80	E DK4-3BE 4 BM-*	123	E DK4-3D 4 BM-*	130	E DK4-3BE 4 FM-*	122	E DK4-3D 4 FM-*	128
	100	E D4-3BE 4 BM-*	153	E D4-3D 4 BM-*	165	E D4-3BE 4 FM-*	150	E D4-3D 4 FM-*	163
	125	E D5-3BE 4 BM-*	194	E D5-3D 4 BM-*	205	E D5-3BE 4 FM-*	190	E D5-3D 4 FM-*	203
	200	-	-	E D6-3D 5 BM-*	490	-	-	E D6-3D 5 FM-*	496
	250	-	-	E D7-3D 5 BM-*	720	-	-	E D7-3D 5 FM-*	717

* SUFFIX: Add -RG for Red-Yellow operator handle.
Add -SS for Black handle "D" type only.
Add -SI for Black-Silver operator "BE" handle.

2 Pole (Size D1 Only)

Deduct \$10 from List Price

P/N Example:

Change 3 to 2: E D1-3BE (3 Pole)

E D1-2BE (2 Pole)

DIMENSIONS: See pages 200-201

Auxiliaries on page 193

4 P O L E	AMPS	E D05-4BE 1 BM-*	\$55	E D05-4D 3 BM-*	\$62	E D05-4BE 1 FM-*	\$56	E D05-4D 3 FM-*	\$63
		E D1-4BE 1 BM-*	61	E D1-4D 3 BM-*	68	E D1-4BE 1 FM-*	58	E D1-4D 3 FM-*	65
	16	E D2-4BE 3 BM-*	97	E D2-4D 3 BM-*	104	E D2-4BE 3 FM-*	94	E D2-4D 3 FM-*	101
	25	E D3-4BE 3 BM-*	121	E D3-4D 3 BM-*	128	E D3-4BE 3 FM-*	118	E D3-4D 3 FM-*	125
	40	E DK4-4BE 4 BM-*	150	E DK4-4D 4 BM-*	157	E DK4-4BE 4 FM-*	144	E DK4-4D 4 FM-*	153
	63	E D4-4BE 4 BM-*	180	E D4-4D 4 BM-*	195	E D4-4BE 4 FM-*	180	E D4-4D 4 FM-*	190
	80	E D5-4BE 4 BM-*	220	E D5-4D 4 BM-*	235	E D5-4BE 4 FM-*	220	E D5-4D 4 FM-*	230
	100	-	-	E D6-4D 5 BM-*	580	-	-	E D6-4D 5 FM-*	580
	125	-	-	E D7-4D 5 BM-*	807	-	-	E D7-4D 5 FM-*	810

SHAFT EXTENSIONS

Switch Size	Shaft Length*	Catalog Number	List Price
D1, D2, D3	200mm (7.87 in)	ED-SE-5	\$15
D4, D5	155mm (6.10 in)	ED-SE-7	16
D6, D7	134mm (5.27 in)	ED-SE-11	20

* Field cut the shaft to length

SHAFT COUPLING ONLY



SE-5	E-171479	\$6 List
SE-7	E-171484	\$8
SE-11	E-171487	\$10

SERIES D

25 - 250 AMP

600 VOLT

PADLOCKABLE

ON - OFF

SINGLE HOLE MOUNT

FRONT DRILLING
22mm, 7/8"

OPTION
30.5mm
Full size PB mount



3 POLE	SIZE UNIT	RATED CURRENT		WITH BE OPERATOR		WITH D OPERATOR	
		ITH AMPS	UL/CSA GENERAL PURPOSE (INDUCTIVE) AMPS	CATALOG NUMBER	LIST PRICE	CATALOG NUMBER	LIST PRICE
	D1	25	25	E D1-3BE 1 SH-*	\$60	E D1-3D 2 SH-*	\$69
	D2	40	40	E D2-3BE 2 SH-*	88	E D2-3D 2 SH-*	97
	D3	63	63	E D3-3BE 2 SH-*	121	E D3-3D 2 SH-*	130
	DK4	80	80	-	-	-	-
	D4	100	100	-	-	-	-
	D5	125	125	-	-	-	-

4 POLE	D1	25	25	E D1-4BE 1 SH-*	\$70	E D1-4D 2 SH-*	\$79
	D2	40	40	E D2-4BE 2 SH-*	102	E D2-4D 2 SH-*	111
	D3	63	63	E D3-4BE 2 SH-*	134	E D3-4D 2 SH*	144
	DK4	80	80	-	-	ADAPTOR RING	
	D4	100	100	-	-	To convert standard 22mm switch (7/8" mounting) to full size 30.5mm #ED-134353 \$0.80 list each	
	D5	125	125	-	-		

2 Pole (Size D1 Only)

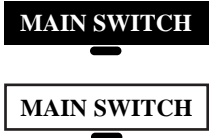
Deduct \$10 from List Price

P/N Example: Change 3 to 2: E D1-3BE (3 Pole)

E D1-2BE (2 Pole)

*** SUFFIX:** Add -RG for Red-Yellow operator handle.
Add -SS for Black handle "D" type only.
Add -SI for Black-Silver operator "BE" handle.

DISCONNECT DESCRIPTION PLATE FITS ABOVE TYPE BE OR D OPERATORS







DESCRIPTION	CATALOG NUMBER	LIST PRICE			
		48 X 16mm (1.9" X 0.6")		65 X 6mm (2.5" X 0.8")	
BRUSH SILVER WITH BLACK LETTERS	ED-NP-	-S1	\$8	-S2	\$9
YELLOW WITH BLACK LETTERS	ED-NP-	-Y1	\$8	-Y2	\$9
BLACK WITH WHITE LETTERS	ED-NP-	-B1	\$8	-B2	\$9

Standard marking add suffix: Main Switch (-MS) OR Emergency off (-EO).
For special marking add \$6 List.
Example: #ED-NP-S1

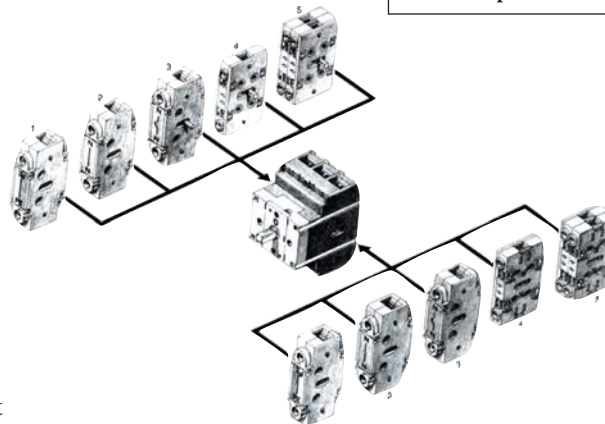
Dimensions: See page 203.

Replacement Operator Handles

	BE Type Front Mount, Base Mount Operators		D Type Front Mount, Base Mount Operators		BE Type Safety Door Provision		D Type Safety Door Provision	
								
	no interlock provisions		no interlock provisions		interlock provisions		interlock provisions	
SIZE	PART#	LIST	PART#	LIST	PART#	LIST	PART#	LIST
ED05-ED1	E BE-**-S05	\$19	E D-**-S1	\$20	E BE-SD-**-S05	\$36	E D-SD-**-S1	\$37
ED2-ED3	E BE-**-S1	\$20	E D-**-S1	\$20	E BE-SD-**-S1	\$37	E D-SD-**-S1	\$37
EDK4-ED5	E BE-**-S2	\$26	E D-**-S2	\$26	E BE-SD-**-S2	\$47	E D-SD-**-S2	\$47
ED6-ED7	E BE-**-S3	\$33	E D-**-S3	\$33	E BE-SD-**-S3	\$62	E D-SD-**-S3	\$62

**** Replace Asterix with handle color suffix:**
 “RG” for red/yellow operator handle
 “SS” for black handle (D type only)
 “SI” for black silver operator (BE type)

Part# Example:
 Black BE operator E D1 with interlock provision: E BE-SD-SI-S1

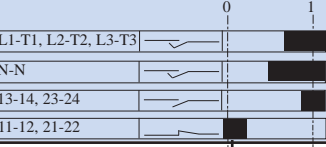



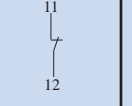
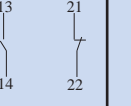
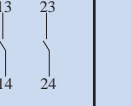
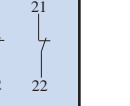
One per side mounting

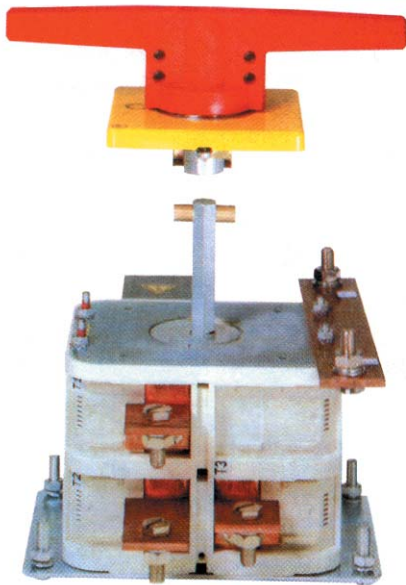
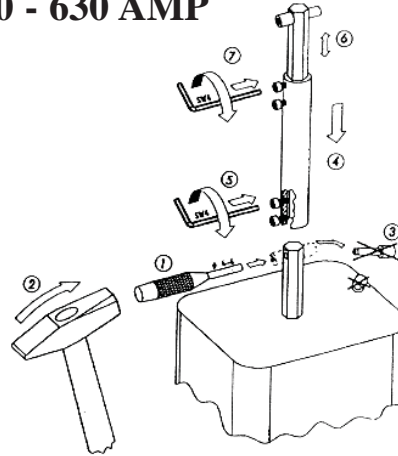
Front mount: terminal screws accessible from the rear

Rear mount: terminal screws accessible from the front

See page 188-189 for Technical Data

Element		1	2	3	
Functional Diagram		Ground PE terminal	N terminal	Additional Power Pole	
		PE	N	N Neutral Switch	
Size	Amps				
D2/D3	Front mounting F	63A	ED-NPE23 \$10	ED-NPE21 \$10	ED-NPE25 \$15
	Rear mounting PF		ED-NPE24 \$10	ED-NPE22 \$10	ED-NPE26 \$15
DK4/ D4/D5	Front mounting F	125A	ED-NPE33 \$17	ED-NPE31 \$17	ED-NPE35 \$27
	Rear mounting PF		ED-NPE34 \$17	ED-NPE32 \$17	ED-NPE36 \$27
D6/D7	Front mounting F	250A	ED-NPE434 \$44	ED-NPE412 \$44	ED-NPE45 \$90
	Rear mounting PF		ED-NPE434 \$44	ED-NPE412 \$44	ED-NPE46 \$90

4		5		
Auxiliary Switch 12 Amp		Auxiliary Switch 12A Ith		
1NO	1NC	1NO + 1NC	2NO	2 NC
				
ED-HF10 \$15	ED-HF01 \$15	ED-HF11 \$25	ED-HF20 \$25	ED-HF02 \$25
ED-HC10 \$15	ED-HC01 \$15	ED-HC11 \$25	ED-HC20 \$25	ED-HC02 \$25
ED-HF10 \$15	ED-HF01 \$15	ED-HF11 \$25	ED-HF20 \$25	ED-HF02 \$25
ED-HC10 \$15	ED-HC01 \$15	ED-HC11 \$25	ED-HC20 \$25	ED-HC02 \$25

**DISCONNECTS
to 600 AMPS**

400 - 630 AMP


SHAFT EXTENSION KITS			
	PART #	LENGTH L (mm)	LIST
D	206 406	300	\$150

International requirements: The type DL8 and DL9 disconnects comply with the requirements of DIN EB 60 204 part 1 / VDE 0113 section 5.3 for hand-operated main switches. According to EN 60 947-3 European Norm, the disconnects are also rated to comply with utilization category AC-23B. (These are not UL Approved).

Voltage rating: 1000 Isolation Volts, DL series switches comply with the isolator requirements according to VDE for 1000 V in 3-phase systems. The connection terminals have individual terminals for connection to lugs or bus. The double lever type handle DHV is equipped with an interlocking for 3 padlocks.

3-pole or 4-pole: The switches can also be supplied in 4-pole execution as switching neutral.

**Operating handle red -
Face plate yellow RG**



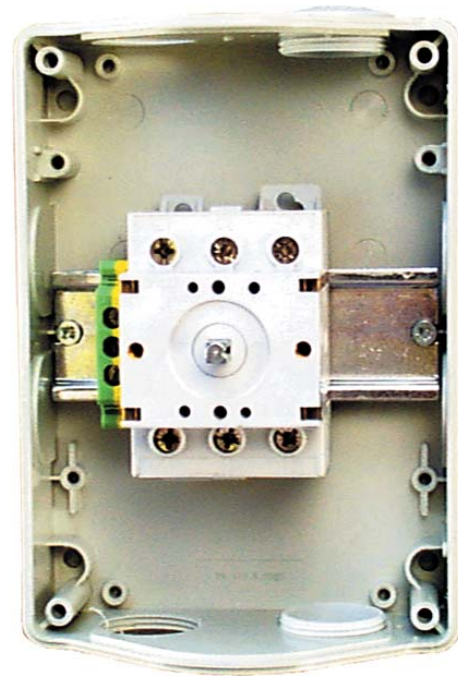
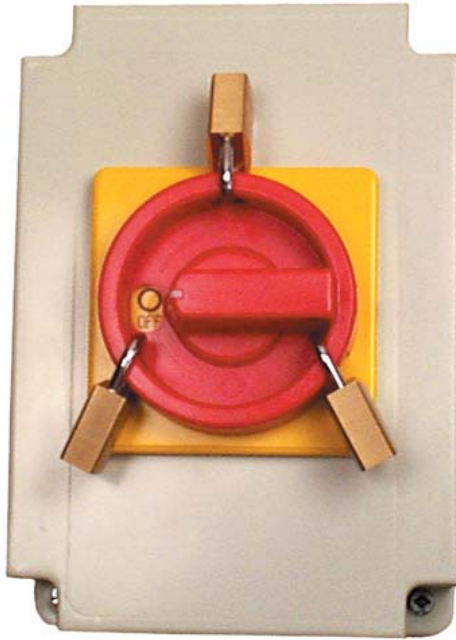
	Switch size	Thermal rated current I _{th} A	Front Mounting F55		Base mounting with door coupling and door interlock PVF55	
			DHV			
			Catalog number	List	Catalog number	List
3-poles	DL8	400	E DL8-3F 5 FM-*	\$2698	E DL8-3F 5 BM-*	\$2698
	DL9	630	E DL9-3F 5 FM-*	\$3063	E DL9-3F 5 BM-*	\$3063
4-poles	DL8	400	E DL8-4F 5 FM-*	\$2917	E DL8-4F 5 BM-*	\$2917
	DL9	630	E DL9-4F 5 FM-*	\$3281	E DL9-4F 5 BM-*	\$3281

SUFFIX: Add -RG for Red-Yellow operator handle.
Add -SI for Black-Silver operator handle.

DIMENSIONS: See page 202.

Maintenance switches D and DL series
Construction features

690 VOLT
16 - 630 AMP



Type D4 80 AMP disconnect
in Type S4 enclosure

DISCONNECTS
to 600 AMPS

ENCLOSED DISCONNECTS

SERIES D, AND DL ARE LOAD MAKE, LOAD BREAK DISCONNECTS FOR USE AS MAIN AND PANEL ON-OFF DISCONNECTS, AND EMERGENCY (RED YELLOW) DISCONNECTS.

SERIES D, 3, 4 OR 6 POLE, 16 TO 250 AMP.

SERIES DL, 3 OR 4 POLE, 400 TO 630 AMP.

VOLTAGE RATING

ALL SERIES D DISCONNECTS ARE RATED 690 VOLT MAXIMUM, OPERATING VOLTAGE.

LOCK OUT / TAG OUT

OPERATOR HANDLES ARE TYPE "BE" FOR ONE LOCK-OFF OR TYPE D FOR 3 PADLOCKS.

ENCLOSURES

SERIES D STANDARD ENCLOSURES ARE ALL IP65, TYPE S4, OIL TIGHT, WATER TIGHT, HOSE DOWN DESIGN WITH KNOCKOUTS, OR TYPE NEMA 4X.

METAL NEMA 1 OR 12 ARE ALSO AVAILABLE.

NEMA IP 65 IS FOR INDUSTRIAL AND OUTDOOR APPLICATIONS AND IS CAPABLE OF HOSE TEST WATER TIGHTNESS. IP 65 IS USED INTERNATIONALLY FOR SIMILAR APPLICATIONS AS THE NEMA 4 OR 4X, WHEN NON-CORROSIVE DESIGN IS REQUIRED.

GROUND CONNECTION TERMINALS (PE) ARE STANDARD IN ALL ENCLOSURE SIZES. OPTIONAL ARE NEUTRAL CONNECTION (N) OR SWITCHING NEUTRAL (STANDARD 4 POLE DESIGN).

SERIES D

BASE MOUNT WITH SAFETY DOOR INTERLOCK

25 - 250 A

PADLOCKABLE OPEN TYPE 600 VOLT ON-OFF



With
Auto Alignment

FRONT PANEL DRILLING D1-7	RATED CURRENT			WITH BE OPERATOR		WITH D OPERATOR	
	SIZE UNIT	I TH AMPS	UL/CSA GENERAL PURPOSE (INDUCTIVE) AMPS	CATALOG NUMBER	LIST PRICE	CATALOG NUMBER	LIST PRICE
				Suitable for 1 PADLOCK		Suitable for 3 PADLOCKS	
See Dimensions Page 185.	6 POLE						
	D1	25	25	E D1-6BE 1 SD8-*	\$101	E D1-6D 3 SD8-*	\$108
	D2	40	40	E D2-6BE 3 SD8-*	321	E D2-6D 3 SD8-*	328
	D3	63	63	E D3-6BE 3 SD8-*	376	E D3-6D 3 SD8-*	383
	DK4	80	80	E DK4-6BE 4 SD8-*	407	E DK4-6D 4 SD8-*	419
	D4	100	100	E D4-6BE 4 SD8-*	426	E D4-6D 4 SD8-*	438
	D5	125	125	E D5-6BE 4 SD8-*	462	E D5-6D 4 SD8-*	474
	D6	200	200	-	-	E D6-6D 5 SD8-*	1015
D7	250	250	-	-	E D7-6D 5 SD8-*	1400	

8" DEPTH DIMENSION is standard on sizes D05-D7 with through the door safety interlock mechanism.

* SUFFIX: Add -RG for Red-Yellow operator handle.
Add -SS for Black handle "D" type only.
Add -SI for Black-Silver operator "BE" handle.

DEDUCT For Non-Auto Alignment

To substitute **NON-Auto Alignment** safety door interlock for the auto-alignment style, change SD in part# to SDV.

Deduct: D1-(-\$6) list
D2-(-\$14) list
D3-(-\$20) list

Last digit in part number indicates face plate size.
Part# Example: E D1-6BE 1 SD8-RG; SD = safety door interlock design, BE = 1 padlock type, 1 = size 1 face plate, RG = Red-Yellow handle, 8 = 8" Depth Dimension, with shaft.

DIMENSIONS:
See page 199.

CATALOG NUMBER CODE:
"SD" - Safety Door (Interlock Design)
"BE" - 1 padlock type
"D" - 3 padlock type

Type BE, D:
IP 65: Dust Tight / Hose Test / Rain Tight
NEMA 1, 3R, 12, 4X (IP 67):
BY-1 is IP 67
and recommended for 4X applications
(non corrosive areas).
Defeatable Operator for size D05 - D5
Replace "BE" with "BY", Add \$10 List



Base Mount - 6 Pole

Available from stock with handle attached to switch.



Front Mount - 6 Pole

Available from stock. Handle mounts on Enclosure Front with switch mounted inside cover.

Series D Switches, 3 Pole, 4 Pole and 5 Pole are also available from stock!