

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

UL 5kA: D05 - D5, UL 10kA: D6, D7

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

6 Pole D						Disconnects with UV trip				
R1	R2	R3	R4	R5	R6		S1	S2	S3	S4
25	32	50	63	115	150		25 ¹⁾	50 ¹⁾	80	150
-	-	-	-	-	-		-	-	-	-
-	-	-	-	-	-		-	-	-	-
-	-	-	-	-	-		-	-	-	-
-	-	-	-	-	-		-	-	-	-
-	-	-	-	-	-		-	-	-	-
A600	A600	A600	A600	A600	A600		A600	A600	A600	A600
690	690	690	690	690	690		690	690	690	690
6	6	6	6	6	6		6	6	6	6
-	-	-	-	-	-		1-4	2.5-10	4-16	10-50 ²⁾
-	-	-	-	-	-		1-2.5	1.5-6	4-16	-
5 x 4	5 x 6	5 x 10	5 x 16	4 x 35	4 x 50		-	-	-	-
35	35	63	80	125	160		25	50	80	160
500	500	690	690	690	690		690	690	690	690
25	32	50	63	115	150		25	50	80	150
690	690	690	690	690	690		690	500	500	500
7.5	15	22	30	55	75		7.5	15	37	37
5.5	11	15	22	37	55		7.5	15	37	37
690	690	690	690	690	690		500	500	500	-
6	6	6	6	6	6		4	4	4	-
12	12	12	12	12	12		16	16	16	-
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	-
16	16	16	16	16	16		16	16	16	-
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	-
0.5-2.5	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



EMERGENCY DISCONNECTS MAIN DISCONNECTS



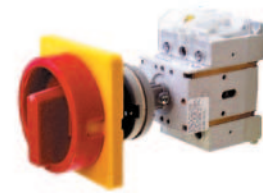
SERIES D PADLOCKABLE OPEN TYPE

BASE MOUNT WITH SAFETY DOOR INTERLOCK

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	
		ITH 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-*	167	E DK4-3D 4 SD-*	179
	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

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 asterisk 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 193.

4 POLE 8" Adjustable mounting depth as standard	D05	16	16	E D05-4BE 1 SD-*	\$79	E D05-4D 3 SD-*	\$84
	D1	25	25	E D1-4BE 1 SD-*	84	E D1-4D 3 SD-*	89
	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-*	191	E DK4-4D 4 SD-*	196
	D4	100	100	E D4-4BE 4 SD-*	210	E D4-4D 4 SD-*	220
	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.

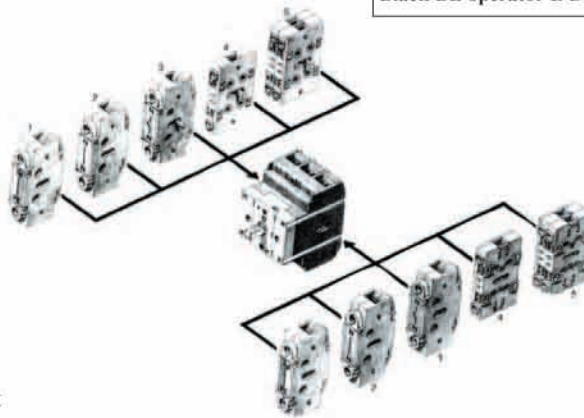
Discount Schedule ET

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 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)

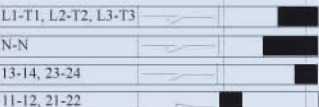
Part# Example:
 Black BE operator E D1 with interlock provision: E BE-SD-SI-S1



One per side mounting

Front mount: terminal screws
accessible from the rear

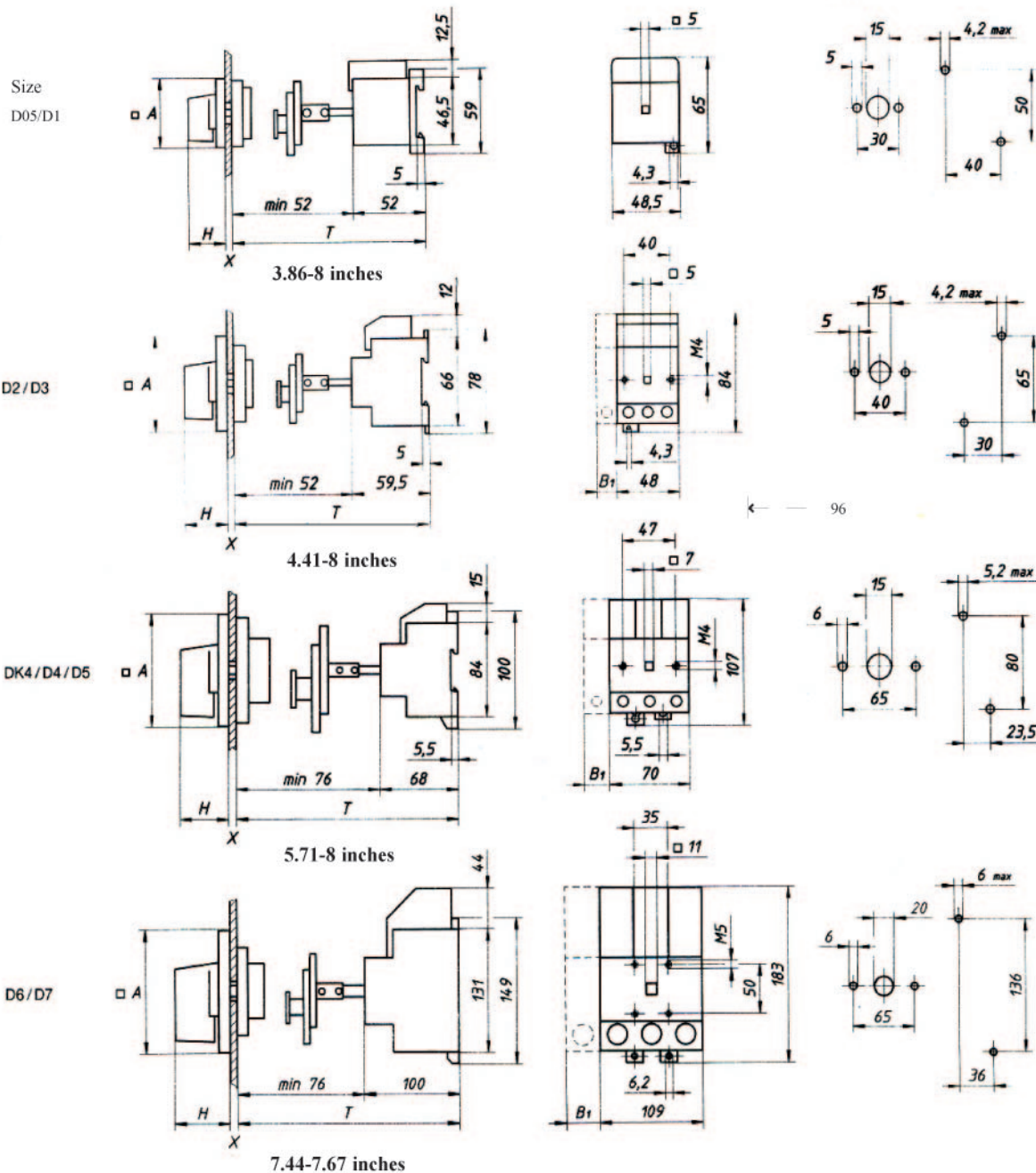
Rear mount: terminal screws
accessible from the front

Element			1	2	3	4		5		
Functional Diagram			Ground PE terminal	N terminal	Additional Power Pole	Auxiliary Switch 12 Amp		Auxiliary Switch 12A lth		
			PE	N	N	INO	INC	INO + INC	2NO	2 NC
LI-T1, L2-T2, L3-T3 N-N 13-14, 23-24 11-12, 21-22			PE	N	N	13	11	13 21	13 23	11 21
Size		Amps			Neutral Switch	14	12	14 22	14 24	12 22
D2/D3	Front mounting F	63A	ED-NPE23	ED-NPE21	ED-NPE25	ED-HF10	ED-HF01	ED-HF11	ED-HF20	ED-HF02
	Rear mounting PF		\$10	\$10	\$16	\$20	\$20	\$25	\$25	\$25
DK4/ D4/D5	Front mounting F	125A	ED-NPE24	ED-NPE22	ED-NPE26	ED-HC10	ED-HC01	ED-HC11	ED-HC20	ED-HC02
	Rear mounting PF		\$10	\$10	\$16	\$20	\$20	\$25	\$25	\$25
D6/D7	Front mounting F	250A	ED-NPE33	ED-NPE31	ED-NPE35	ED-HF10	ED-HF01	ED-HF11	ED-HF20	ED-HF02
	Rear mounting PF		\$17	\$17	\$27	\$20	\$20	\$25	\$25	\$25
	Front mounting F		ED-NPE34	ED-NPE32	ED-NPE36	ED-HC10	ED-HC01	ED-HC11	ED-HC20	ED-HC02
	Rear mounting PF		\$17	\$17	\$27	\$20	\$20	\$25	\$25	\$25
	Front mounting F		ED-NPE434	ED-NPE412	ED-NPE45	ED-HF10	ED-HF01	ED-HF11	ED-HF20	ED-HF02
	Rear mounting PF		\$46	\$46	\$90	\$20	\$20	\$25	\$25	\$25
	Front mounting F		ED-NPE434	ED-NPE412	ED-NPE46	ED-HC10	ED-HC01	ED-HC11	ED-HC20	ED-HC02
	Rear mounting PF		\$46	\$46	\$90	\$20	\$20	\$25	\$25	\$25

BASE MOUNT With Safety Door Interlock DIMENSIONS APPROX. (mm)

For page 176.

3 pole dimensions Insert



Handle Type Size	BE		D		X _{max}	T	/Element/			B ₁
	A	H	A	H			3	4	5	
D05/D1	48	27	72	34	4	98-203	-	-	-	-
D2 / D3	72	34	72	34	4	112-203	17	11	19	19
DK4 / D4 / D5	96	44	96	44	4	145-203	24	11	19	19
D6 / D7	-	-	125	60	4	189-195	36	11	19	19

Coupling disc displaceable from the middle of the shaft

D1 - D3 displacement ± 4 mm, DK4 - D7 ± 8 mm

*SEE PAGE 179.