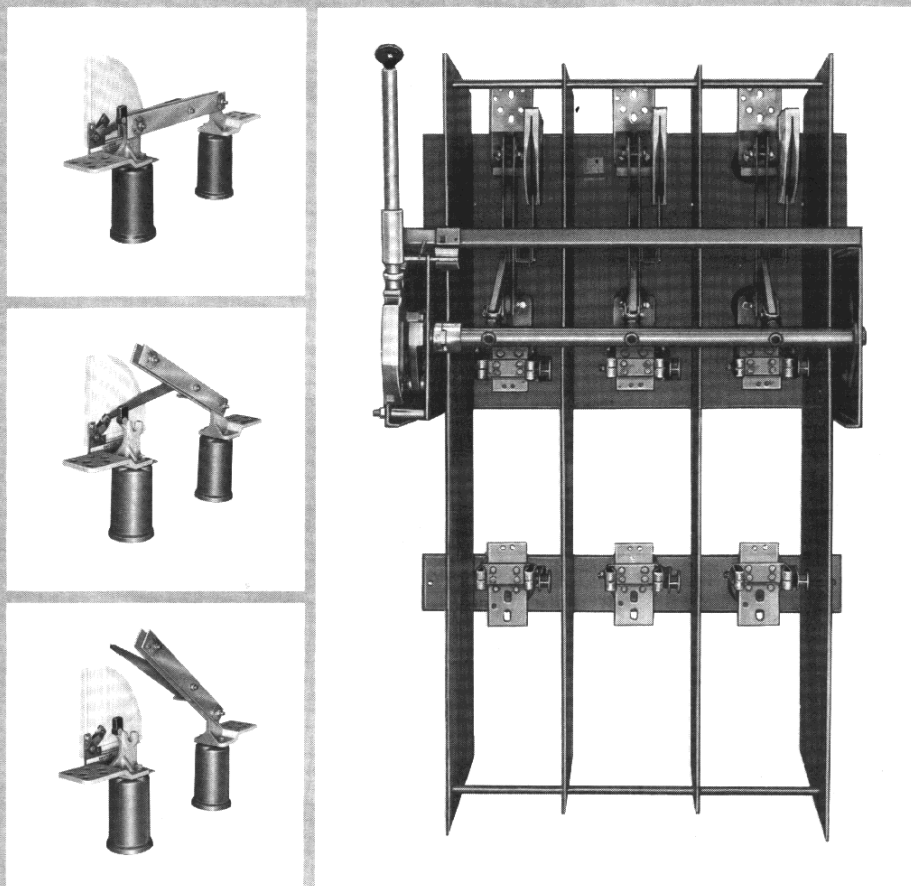




600 Ampere 4.16kV and 13.8kV HVL Load Interrupter Switch

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HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

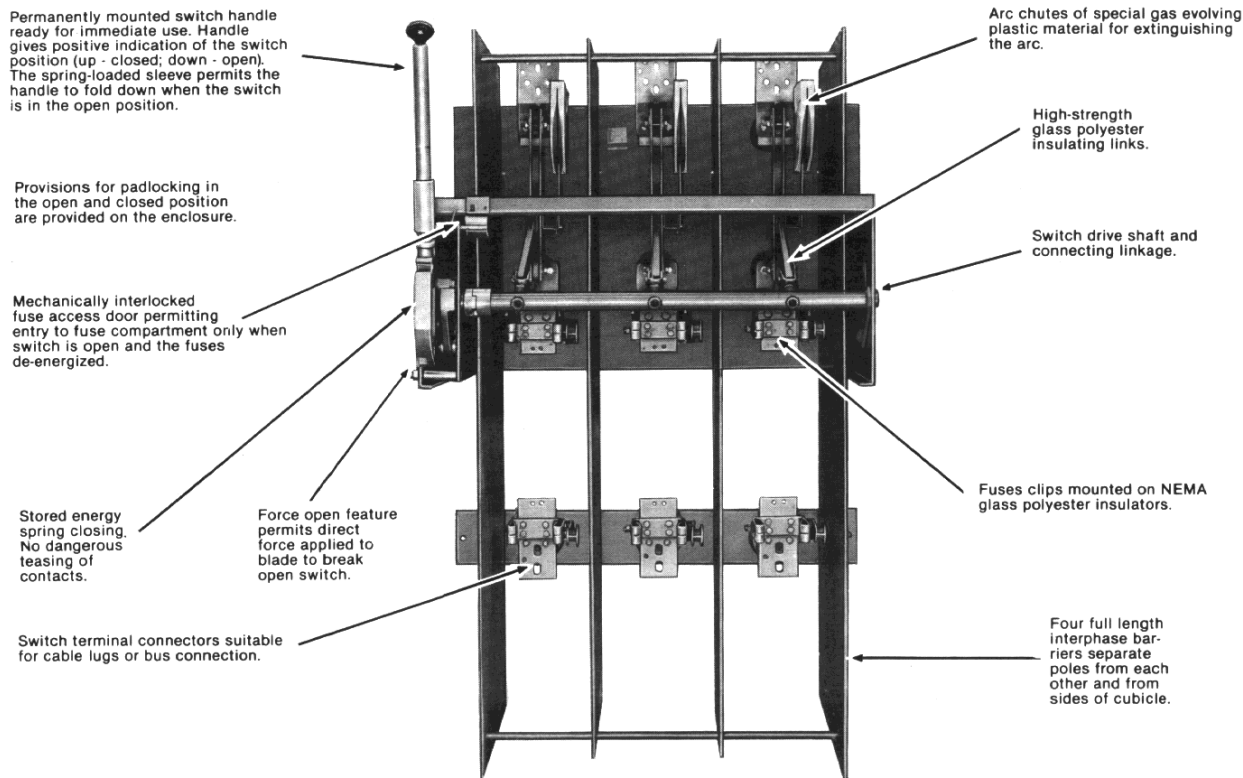
FEBRUARY, 1985

OPEN TYPE

DESCRIPTION

Square D HVL load interrupter switches are designed for use on 2.4 KV to 13.8 KV power distribution systems. They function as a prime component in the system providing switching and over-current protection for the high voltage circuits. These switches are

frequently used in service entrance equipment, unit substations or for sectionalizing high-voltage feeder systems. The switch is single throw and is rated for 600 amperes continuous current and 600 amperes contact interrupting capacity.



- 4.16 KV-60 KV BIL
- 13.8 KV-95 KV BIL
- 600 Amperes
- 2 and 3 Pole
- 61,000 Ampere Momentary
- 40,000 Ampere Fault Close
- 25,000 Ampere Short-Time
- Fusible
- Not Fusible
- Upright Unit
- Inverted Unit

CURRENT LIMITING FUSES:

- Fast-acting to limit available fault current stresses on the system
- Silent operation
- Completely factory assembled
- Sealed for consistent characteristics
- High-interrupting capacity
- Positive indication of blown fuse

BORIC ACID FUSES:

- Low cost refill units
- Available for high "E" ratings
- Discharge filter and condenser or snuffer types.

HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

CLASS
9840

OPEN TYPE CATALOG NUMBER AND FUSE DATA

FRONT CONNECTED LINESIDE AND LOADSIDE

NOT-FUSIBLE
TABLE 1

Voltage Rating	Catalog* Number
4.16KV	05U60
13.8KV	15U80

* — Add the suffix I to catalog number for inverted switch

FUSIBLE (PROVISIONS ONLY)
TABLE 2

Voltage Rating	Mfr.	Fuse Data		Catalog* Number
		Type	Rating	
4.16KV	GE	EJO-1 Size D	30E to 100E	05F61
	(W)	CLE-1 Size D	30E to 225E	
	GE	EJO-1 Size C	5E to 25E	05F63
	GE	EJO-1 & EJ-1 Size DD	125E to 450A	05F64
	(W)	CLE Size C	15E to 25E	05F65
	(W)	CLE-2 Size E	250E to 450X	05F66
	(W)	RBA-200**	10E to 200E	05F67
	(W)	RBA-400**	1/2E to 400E	05F68
	S & C	SM-4S**	1E to 200E	05F69
	S & C	SM-5S**	1E to 400E	05F70
13.8KV	(W)	RBA-800**	720E	05F71
	GE	EJO-1 Size D	15E to 50E	15F81
	(W)	CLE-1 Size D	30E to 65E	
	GE	EJO-1 Size C	1E to 10E	15F83
	GE	EJO-1 Size DD	65E to 100E	15F84
	GE	EJ-1 Size EE	125E to 175E	15F85
	(W)	CLE Size C	15E to 25E	15F86
	(W)	CLE-2 Size E	80E to 125E	15F87
	(W)	CLE-3 Size E	150E to 200X	15F93
	(W)	RBA-200**	10E to 200E	15F88
	(W)	RBA-400**	1/2E to 400E	15F89
	S & C	SM-4S**	1E to 200E	15F90
	S & C	SM-5S**	1E to 400E	15F91
	(W)	RBA-800**	720E	15F92

* — Add the suffix I to catalog number for inverted switch. No price increase is involved.

** Not available as an inverted switch

Note: Fuse holders are not furnished on devices designed for boric acid fuses.


SQUARE D COMPANY

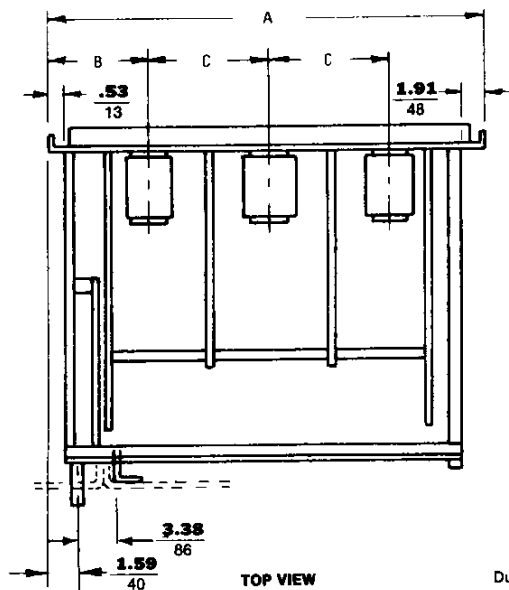
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HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

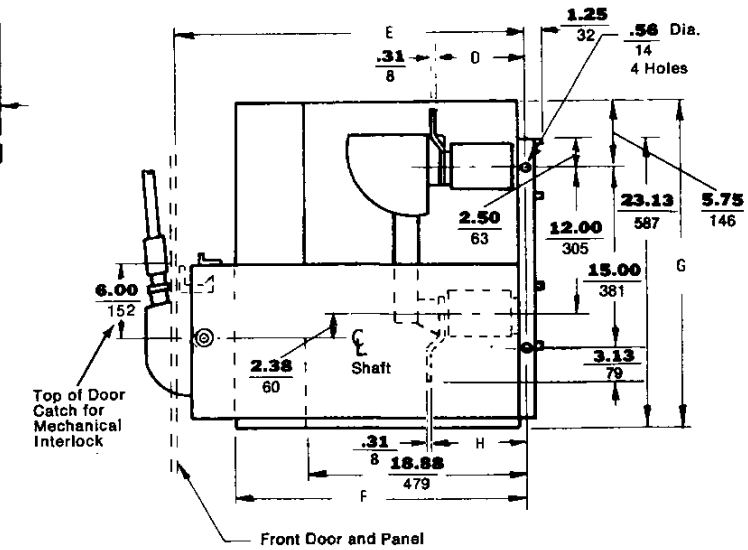
FEBRUARY, 1985

NOT-FUSIBLE UPRIGHT SWITCH

DIMENSIONS



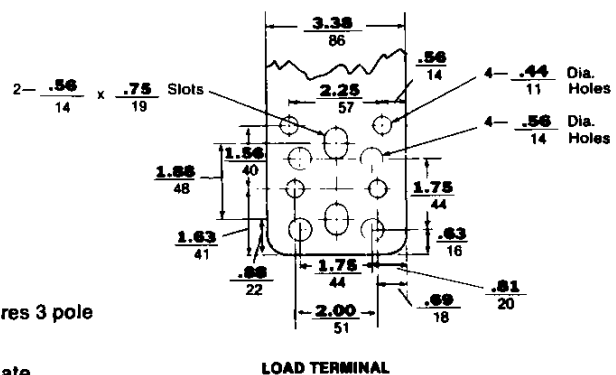
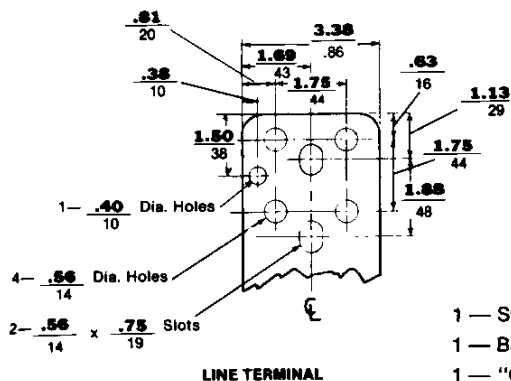
Operating Mechanism



Dual Dimensions INCHES
Millimeters

DIMENSIONS

KV	Catalog Number	A	B	C	D	E	F	G	H
4.16	05U60	31.69 805	7.34 186	8.5 216	5.07 129	26.63 676	18.88 479	26.25 667	4.94 126
13.8	15U80	35.69 906	7.84 199	10.0 254	7.57 192	29.13 740	24.88 632	28.25 717	7.44 189



- 1 — Switch, 600 amperes 3 pole
- 1 — Barrier Assembly
- 1 — "Closed" Nameplate
- 1 — "Open" Nameplate
- 1 — Square D Nameplate
- 1 — Door Catch to Mechanical Interlock
- 1 — Handle Stop
- 2 — Padlock Hasps

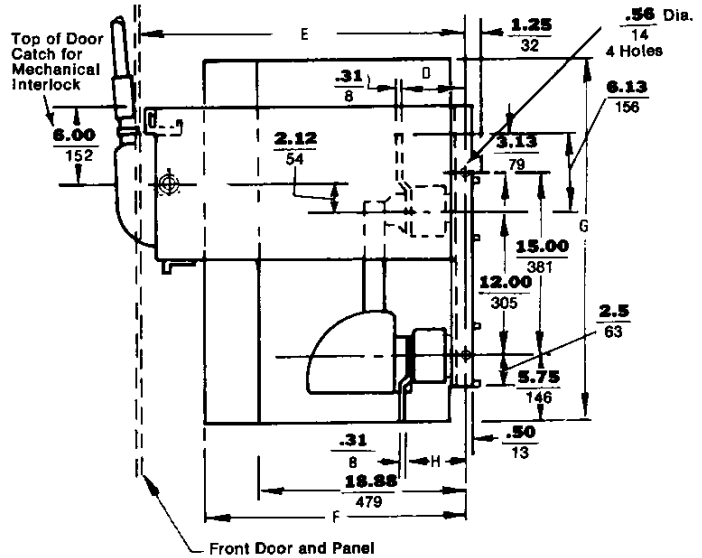
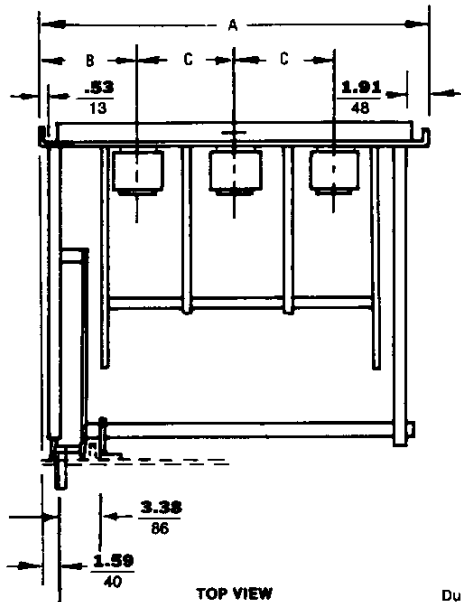


HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

CLASS
9840

NOT-FUSIBLE INVERTED SWITCH

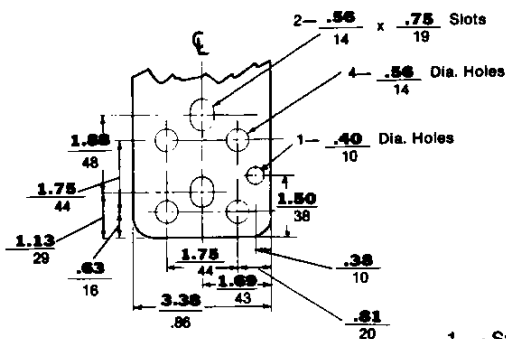
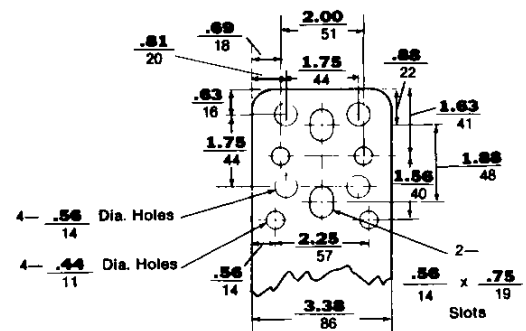
DIMENSIONS


 Dual Dimensions **INCHES**
 Millimeters

**SIDE VIEW WITH RIGHT SIDE
BARRIER REMOVED**

DIMENSIONS

KV	Catalog Number	A	B	C	D	E	F	G	H
4.16	05U80	<u>31.69</u> 805	<u>7.34</u> 186	<u>8.5</u> 216	<u>4.94</u> 126	<u>26.63</u> 676	<u>18.88</u> 479	<u>26.25</u> 667	<u>5.07</u> 129
13.8	15U80	<u>35.69</u> 906	<u>7.84</u> 199	<u>10.0</u> 254	<u>7.44</u> 189	<u>29.13</u> 740	<u>24.88</u> 632	<u>28.25</u> 717	<u>7.57</u> 192


BOTTOM LINE TERMINAL

TOP LOAD TERMINAL

- 1 — Switch, 600 amperes, 3 pole
- 1 — Barrier Assembly
- 1 — "Closed" Nameplate
- 1 — "Open" Nameplate
- 1 — Square D Nameplate
- 1 — Door Catch to Mechanical Interlock
- 1 — Handle Stop
- 2 — Padlock Hasps


SQUARE D COMPANY

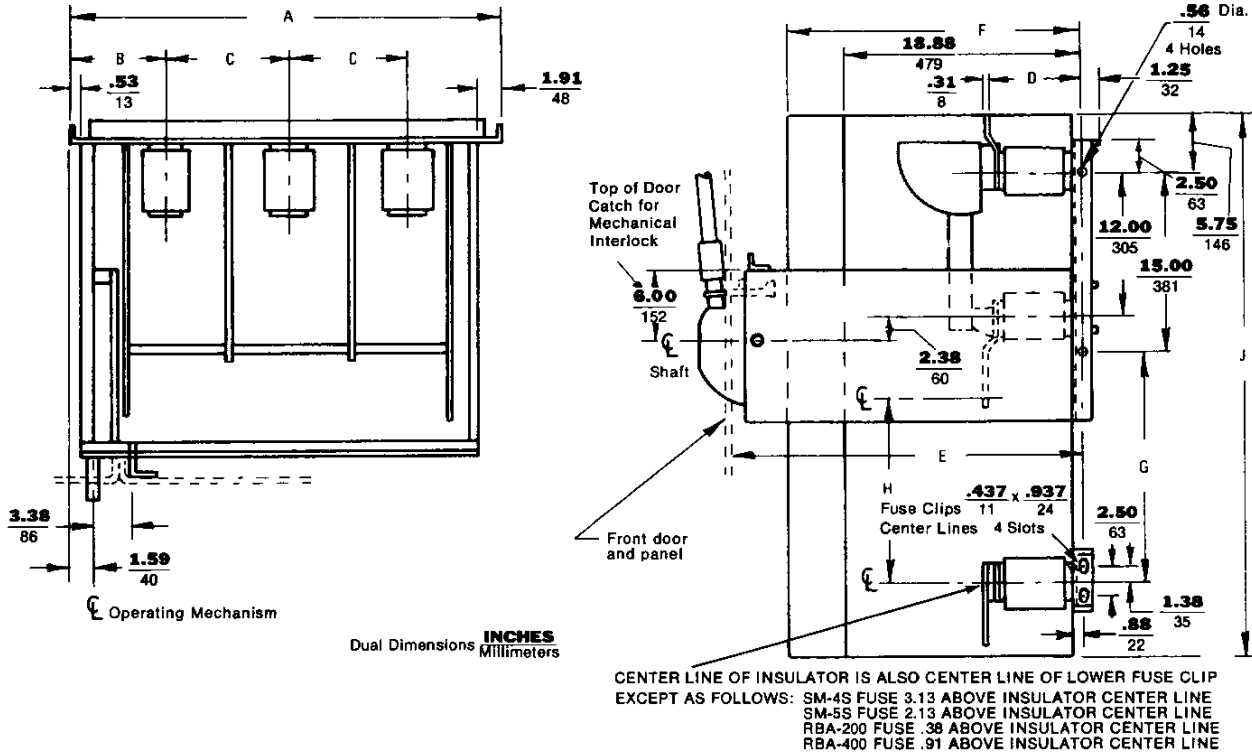
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HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

FEBRUARY, 1985

FUSIBLE UPRIGHT SWITCH

DIMENSIONS



Dimensions	KV	
	4.16	13.8
A	31.69 805	35.69 906
B	7.34 186	7.84 199
C	8.5 216	10.0 254
D	5.07 129	7.57 192
E	26.63 676	29.13 740
F	18.88 479	24.88 632

SWITCH CATALOG NUMBER INCLUDES

- 1 — Switch, 600 amperes, 3 pole
- 1 — Barrier Assembly
- 1 — "Closed" Nameplate
- 1 — "Open" Nameplate
- 1 — Square D Nameplate
- 1 — Door Catch to Mechanical Interlock
- 1 — Handle Stop
- 2 — Padlock Hasps
- 1 — Lower Fuse Mounting Assembly Including Non-Disconnecting Type Live Parts for Indicated Fuse

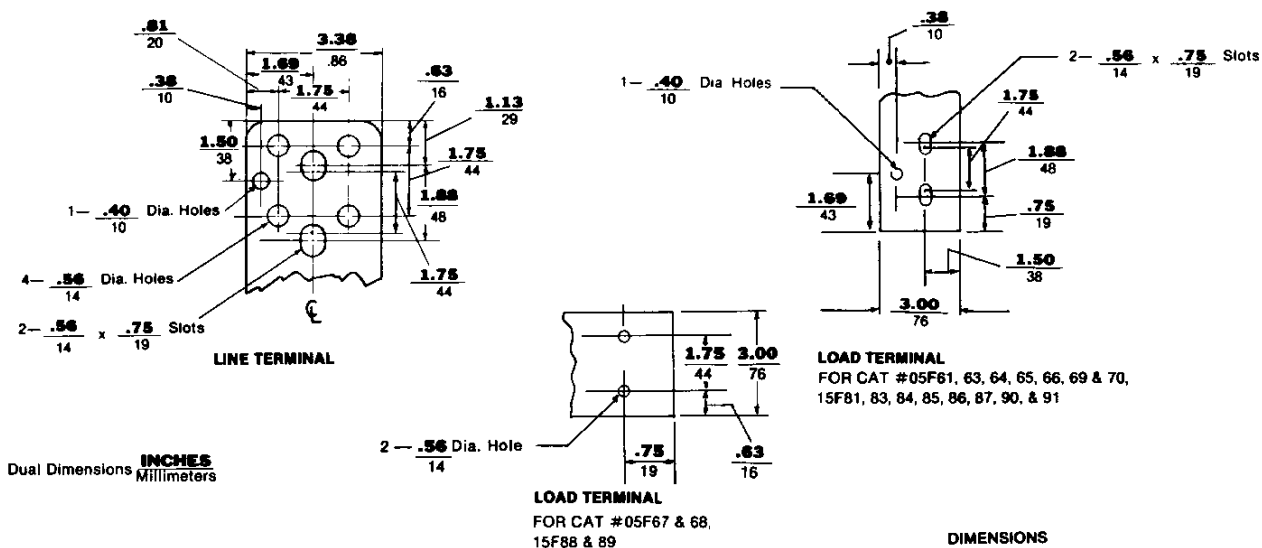


HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

CLASS
9840

FUSIBLE UPRIGHT SWITCH

DIMENSIONS



Voltage Rating	Fuse Data				G		H		J	
	MFG	Type	Rating	Catalog Number	IN	MM	IN	MM	IN	MM
4.16 KV	GE	EJO-1 Size D	30E to 100E	0561	13.5	343	12.00	305	48.25	1225
	(W)	CLE-1 Size D	30E to 225E		15.5	394	14.00	356	48.25	1225
	GE	EJO-1 Size C	5E to 25E	05F63	*		*		*	
	GE	EJO-1 & EJ-1 Size DD	125E to 450A	05F64	13.5	343	12.00	305	48.25	1225
	(W)	CLE Size C	15E to 25E	05F65	*		*		*	
	(W)	CLE-2 Size E	250E to 450X	05F66	15.5	394	14.00	356	48.25	1225
	(W)	RBA-200	10E to 200E	05F67	18.5	470	16.31	414	56.00	1422
	(W)	RBA-400	1/2E to 400E	05F68	19.5	495	16.57	421	56.00	1422
	S & C	SM-4S	1E to 200E	05F69	16.5	419	10.5	267	48.25	1225
	S & C	SM-5S	1E to 400E	05F70	16.5	419	12.5	317	56.00	1422
13.8KV	(W)	RBA-800	720E	05F71	*		*		*	
	GE	EJO-1 Size D	15E to 50E	15F81	16.5	419	15.00	381	48.25	1225
	(W)	CLE-1	30E to 65E		21.5	546	20.00	508	48.25	1225
	GE	EJO-1 Size C	1E to 10E	15F83	*		*		*	
	GE	EJO-1 Size DD	65E to 100E	15F84	16.5	419	15.00	381	48.25	1225
	GE	EJ-1 Size EE	125A to 175A	15F85	18.5	470	14.00	356	48.25	1225
	(W)	CLE Size C	15E to 25E	15F86	*		*		*	
	(W)	CLE-2 Size E	80E to 125X	15F87	21.5	546	20.00	508	48.25	1225
	(W)	CLE-3 Size E	150E to 200X	15F93	24.5	622	20.00	508	56.00	1422
	(W)	RBA-200	10E to 200E	15F88	21.5	546	19.69	500	60.00	1524
	(W)	RBA-400	1/2E to 400E	15F89	23.5	597	20.94	532	60.00	1524
	S & C	SM-4S	1E to 200E	15F90	20.5	521	14.5	368	56.00	1422
	S & C	SM-5S	1E to 400E	15F91	20.5	521	16.5	419	56.00	1422
	(W)	RBA-800	720 E (Max.)		*		*		*	

* Dimensions available on request through the local Square D field Office

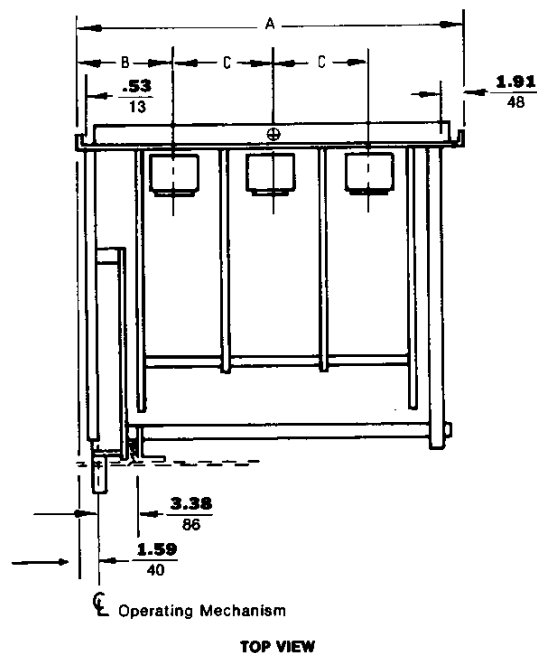
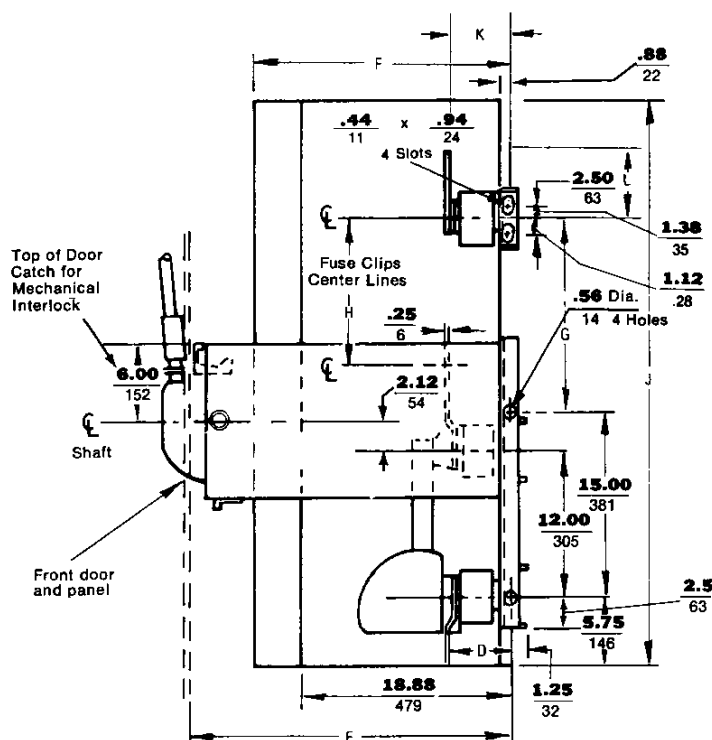

SQUARE D COMPANY

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FUSIBLE INVERTED SWITCH

DIMENSIONS

CURRENT LIMITING FUSES ONLY

Dual Dimensions **INCHES**
Millimeters

**SIDE VIEW SWITCH OPERATOR
BARRIER REMOVED**

Dimensions	KV	
	4.16	13.8
A	<u>31.69</u> 805	<u>35.69</u> 906
B	<u>7.34</u> 186	<u>7.84</u> 199
C	<u>8.5</u> 216	<u>10.0</u> 254
D	<u>5.07</u> 129	<u>7.57</u> 192
E	<u>26.63</u> 676	<u>29.13</u> 740
F	<u>16.88</u> 479	<u>24.88</u> 632

SWITCH CATALOG NUMBER INCLUDES

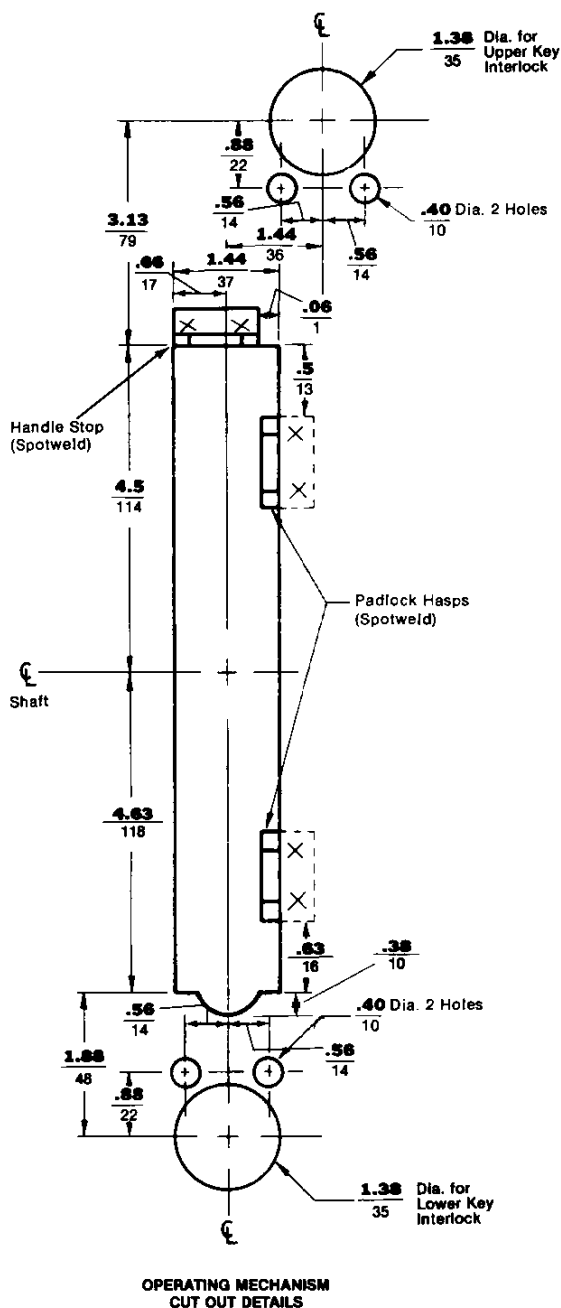
- 1 — Switch, 600 amperes, 3 pole
- 1 — Barrier Assembly
- 1 — "Closed" Nameplate
- 1 — "Open" Nameplate
- 1 — Square D Nameplate
- 1 — Door Catch to Mechanical Interlock
- 1 — Handle Stop
- 2 — Padlock Hasps
- 1 — Upper Fuse Mounting Assembly Including Non — Disconnecting Type Live Parts For Indicated Fuse

HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

FEBRUARY, 1985

CONSTRUCTION DETAILS

FRONT PANEL CUTOUT AND DRILLING FOR OPERATOR LOCK



Dual Dimensions **INCHES**
Millimeters

SWITCH OPERATOR KEY INTERLOCKING

When key interlocking the HVL switch, the lower position on the panel is always used. When an additional L.O. is required, it will be necessary to use the upper position.

INTERLOCK OPEN (Upper Position Only)

The mechanical fuse access door interlock must be removed when 2 key interlocks are used in the upper position since it will interfere with mechanical linkage (see page 13).

- Pierce 3 holes in front panel above operating crank to mount interlock.

NOTE:

A change is required in the pivot bar assembly on the toggle mechanism (supplied with switch upon request at time of order).

INVERTED SWITCH INTERLOCKING

- The above notes apply for the inverted switch.

NOTE:

Use key type "SF" interlock with "O" bolt projection when bolt is withdrawn.

SWITCH FUSE ACCESS DOOR Key Interlocking

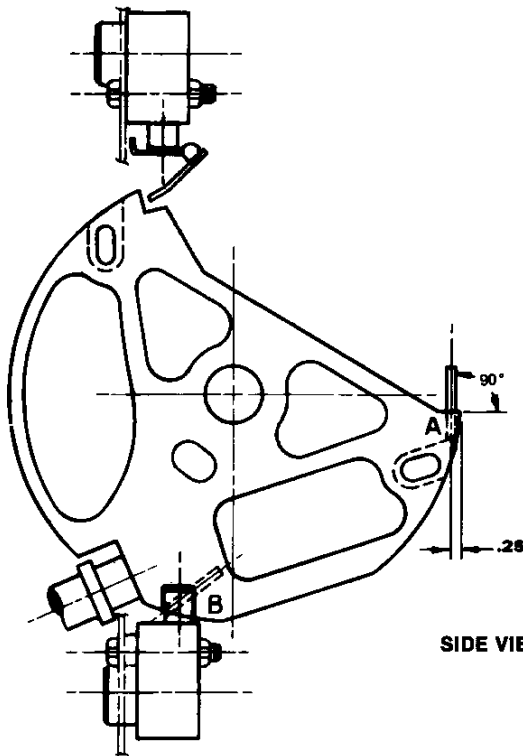
When Key Interlocking of the switch operator and the fuse access door is required. Contact your Square D Co. Field Office for details.

HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

CLASS
9840

CONSTRUCTION DETAILS

DRILLING INSTRUCTIONS FOR KEY INTERLOCK



INTERLOCK OPEN & CLOSE (Lower Position Only)

- a. No alterations required.

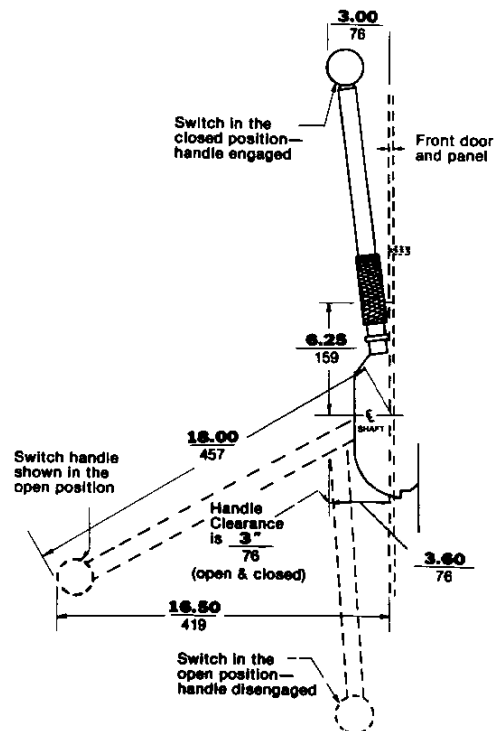
INTERLOCK OPEN (Lower Position Only)

- a. Drill 1/8 dia. hole in center of crank at "A".
Drive 1/8x1 1/2 pin flush with surface of padlock.

INTERLOCK CLOSED (Lower Position Only)

- a. Drill 1/8 dia. hole in center of crank at "B".
Drive 1/8x1 1/2 pin to obstruct lock bolt from entering crank cavity.

SIDE VIEW SWITCH OPERATOR



Dual Dimensions **INCHES**
Millimeters



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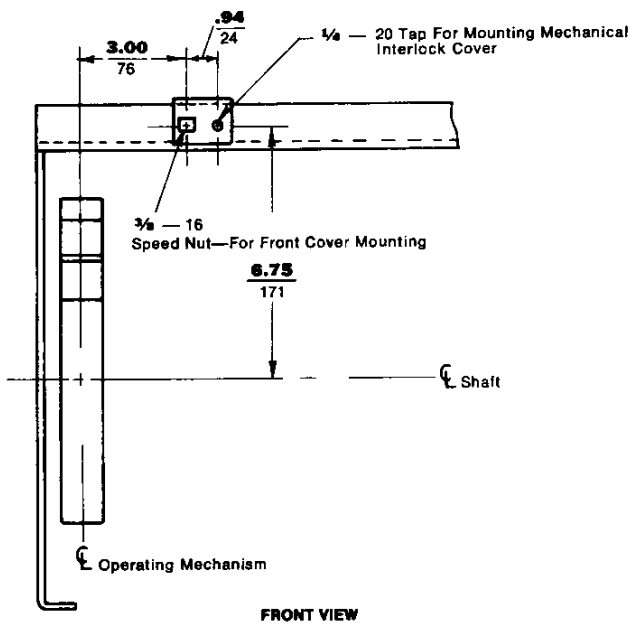
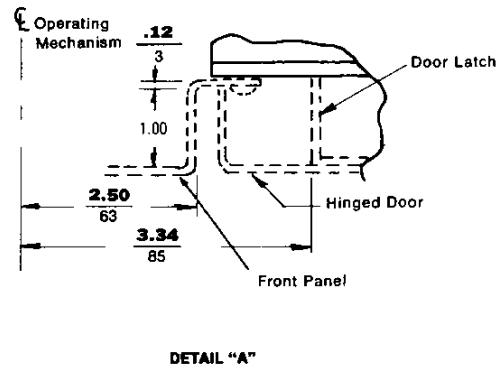
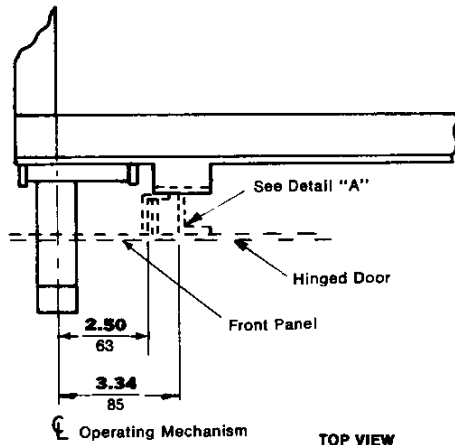
CLASS
9840

HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

FEBRUARY, 1985

CONSTRUCTION DETAILS

DOOR LATCH & FRONT PANEL MOUNTING



Dual Dimensions **INCHES**
Millimeters

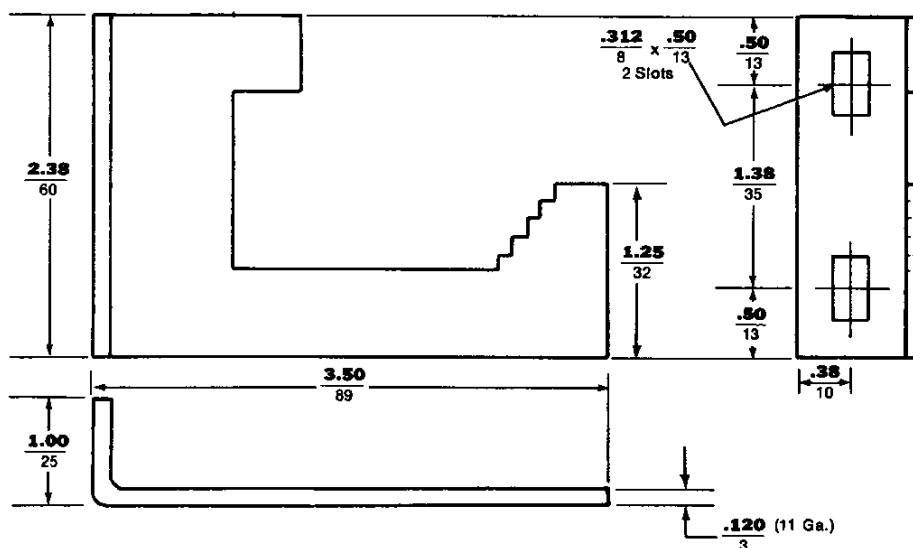


HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

CLASS
9840

CONSTRUCTION DETAILS

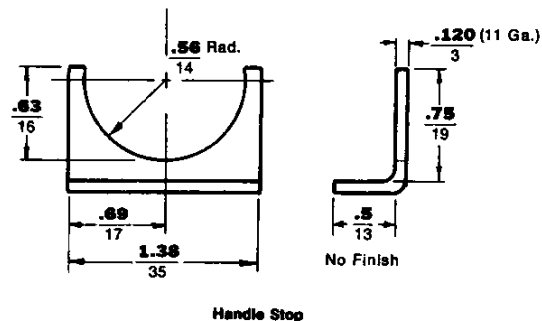
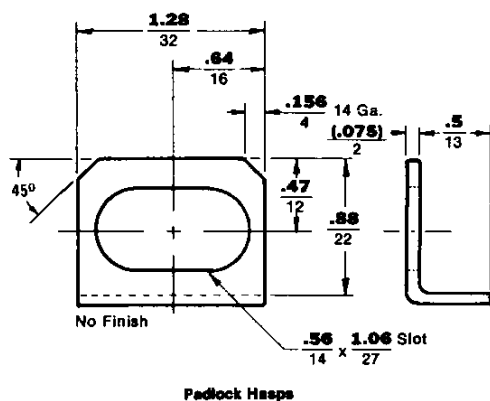
FUSE DOOR INTERLOCKING



DOOR LATCH FOR MECHANICAL INTERLOCK SUPPLIED WITH ALL SWITCHES ZINC PLATED

A mechanical interlock prevents opening the fuse access door when the switch is closed, and from closing the switch with the fuse door open.

Dual Dimensions **INCHES**
Millimeters



PURPOSE: Padlock hasps allow HVL switch to be padlocked in the open or closed position.

Handle stop prevents switch handle from being disengaged when switch is in closed position

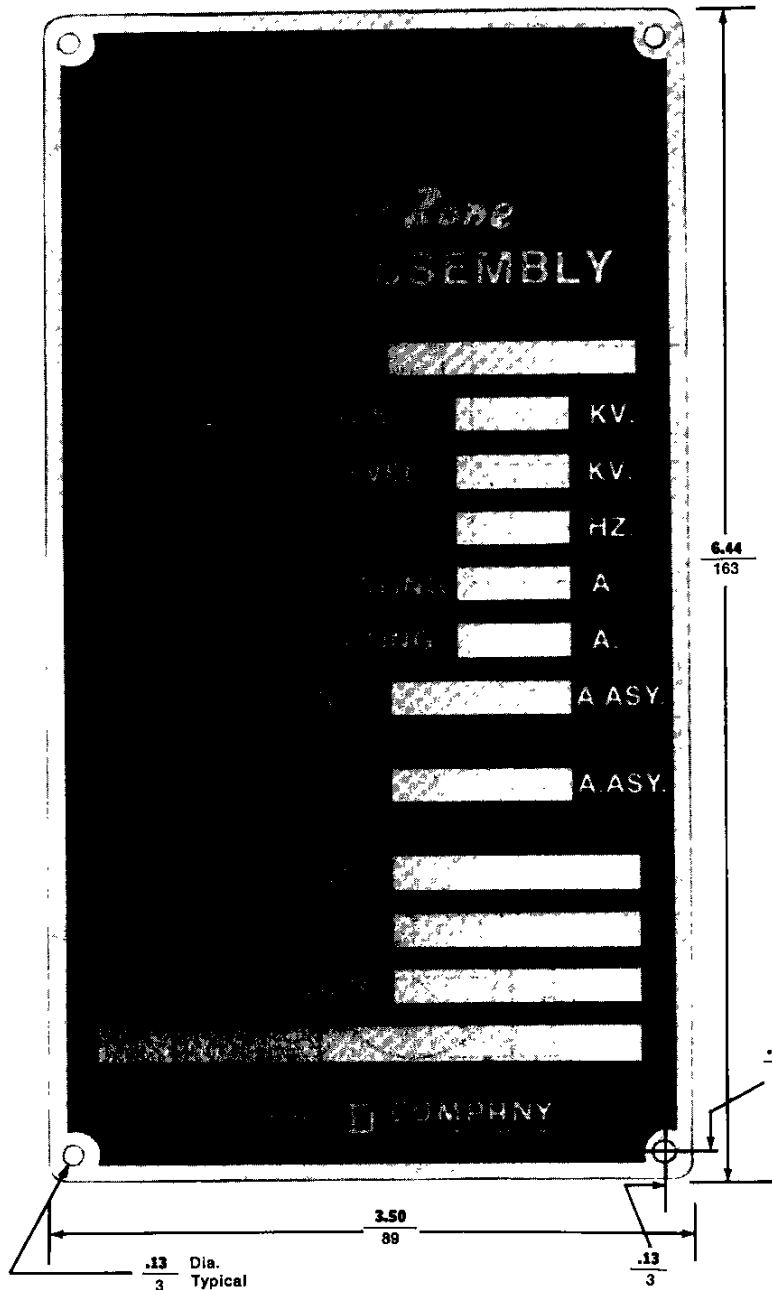

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CLASS
9840

HVL LOAD INTERRUPTER SWITCH 600A 4.16KV AND 13.8KV

FEBRUARY, 1985

NAMEPLATE DATA



NAMEPLATE DATA SUPPLIED WITH SQUARE D TYPE HVL SWITCH

Model Number as Supplied

Max. Des	5.0KV	15.0KV
BIL	60KV	95KV
Frequency	60	60
Switch: Continuous	600A	600A
Load Inter:	600A	600A
AMPS. (ASYM.)	61,000A	61,000A
AMPS. (ASYM.)	▲	
Fuse Supplied	▲	
Fuse Cat. No.	▲	
Square D F.O. Number		

▲ Information can be included by Square D Company when requested by customer (fuse type/manufacturer, current rating, and utilization voltage are required.)

Dual Dimensions **INCHES**
Millimeters

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