

# E-Rated DIN medium voltage fuses, 5.5 to 38 kV, 10 to 450 amps



# **Catalog symbols:**

- 55GDMSJ\_E
- 55GFMSJ\_E
- 155GXQSJ\_E
- 175GDMSJ\_E
- 175GFMSJ\_E
- 175GXMSJ\_E
- 175GXQSJ\_E
- 258GDQSJ\_E
- 258GXQSJ\_E
- 258GXZSJ\_E
- 38GFZSJ\_E
- 38GCZSJ\_E

### **Description:**

Bussmann™ series DIN dimensioned E-Rated medium voltage power fuses with striker for indoor use. Available in general purpose (5.5 to 17.5 kV) and full range (25.8 to 38 kV) versions.

## **Specifications:**

### **Ratings**

- Volts 5.5 38 kV
- Amps: 10 450
- Interrupting rating: 25 65 kA

### Agency information

- General purpose E-Rated per ANSI C37.46 (5.5 to 17.5 kV)
- Full range E-Rated per ANSI C37.40 (25.8 to 38 kV)

### Striker force

• 50 N (11 Lbs)

### Recommended fuseclips

See page 13 for dimensions.

Amp range	Description	Catalog no.
Up to 200 A	Enclosed fuseclip with wingnut tensioner	A33574745*
Up to 200 A	Open fuseclip with spring tensioner	270303

<sup>\*</sup> Not sold in pairs.

### Features and benefits

- · Cool running for lower watts loss
- 100% X-ray inspected to help assure fuse integrity
- Striker provides visual indication of fuse operation or a means to activate a remote monitoring system

### Typical applications

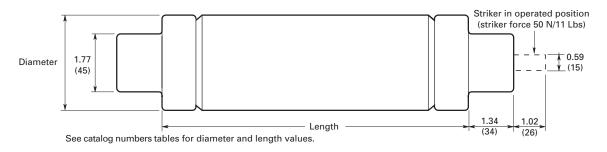
- Primary protection for medium voltage transformers and switch gear
- · Protection of medium voltage feeder circuits
- Direct OEM replacement fuses for 600 A Square D HVLCC and HVL switches — see page 14 for applicable Square D switch catalog symbols and Bussmann series fuse voltage and amp ranges



# Catalog numbers — general purpose versions

			Dimensions — in (mm)	
Catalog numbers A	mps	Interrupting rating (Sym. kA)	Length	Diameter
5.5 kV				
55GDMSJ10E	10			
55GDMSJ15E	15			
55GDMSJ20E	20			
55GDMSJ25	25			
55GDMSJ30E	30		17.4 (442)	
55GDMSJ40E	40			2 (51)
55GDMSJ50E	50			
55GDMSJ65	65			
55GDMSJ80E	80			
55GDMSJ100E	100	65		
55GDMSJ125E	125			
55GFMSJ150E	150		17.4 (442)	
55GFMSJ175E	175			
55GFMSJ200E	200			
55GFMSJ250	250			3 (76)
55GFMSJ300E	300			3 (70)
55GFMSJ350E	350			
55GFMSJ400E	400			
55GFMSJ450E	450			
15.5 kV				
155GXQSJ175E	175	65	21.1 (537)	3.5 (89)
155GXQSJ200E	200			3.3 (63)
17.5 kV				
175GDMSJ10E	10		17.4 (442)	
175GDMSJ15E	15			
175GDMSJ20E	20			2 (51)
175GDMSJ25	25			
175GDMSJ30E	30			
175GFMSJ40E	40	65	17.4 (442)	
175GFMSJ50E	50			3 (76)
175GFMSJ65	65			
175GXMSJ80E	80		17.4 (442)	3.5 (89)
175GXMSJ100E	100			5.5 (65)
175GXQSJ125E	125		21.1 (537)	3.5 (89)
175GXQSJ150E	150			0.0 (00)

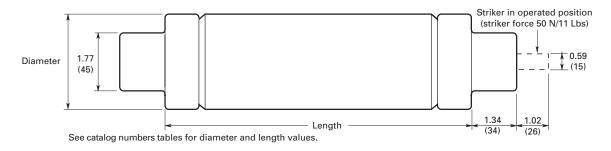
# Dimensions — in (mm)



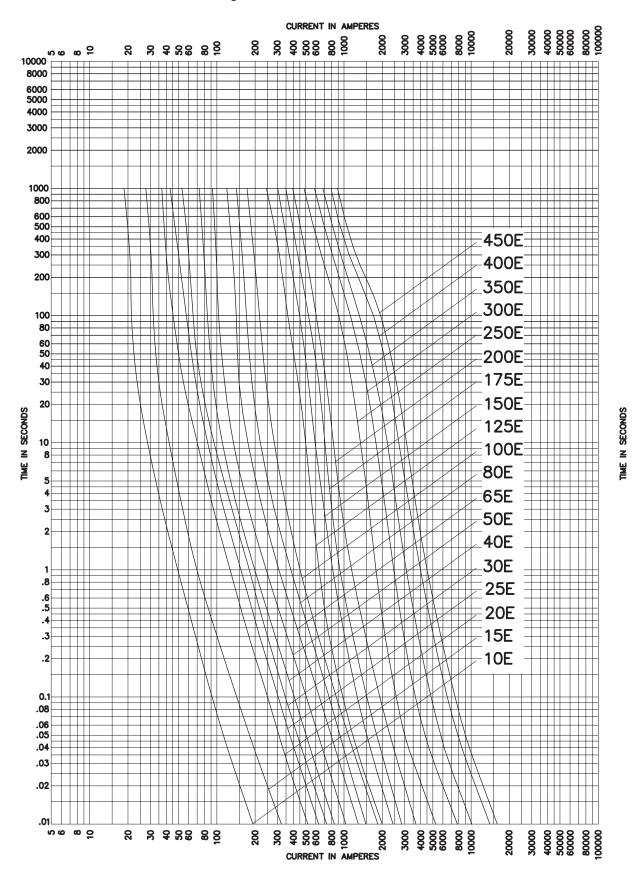
# Catalog numbers — full range versions

			Dimensions — in (mm)	
Catalog numbers	Amps	Interrupting rating (Sym. kA)	Length	Diameter
25.8 kV				
258GDQSJ10E	10			
258GDQSJ15E	15	- - - 25 - - -	21.1 (537)	2 (51)
258GDQSJ20E	20			
258GDQSJ25	25			
258GDQSJ30E	30			
258GXQSJ40E	40		21.1 (537)	
258GXQSJ50E	50			3.5 (89)
258GXQSJ65	65			
258GXZSJ80E	80		28.3 (718)	3 F (00)
258GXZSJ100E	100			3.5 (89)
38 kV				
38GFZSJ10E	10	25	28.3 (718)	
38GFZSJ15E	15			
38GFZSJ20E	20			3 (76)
38GFZSJ25	25			
38GFZSJ30E	30			

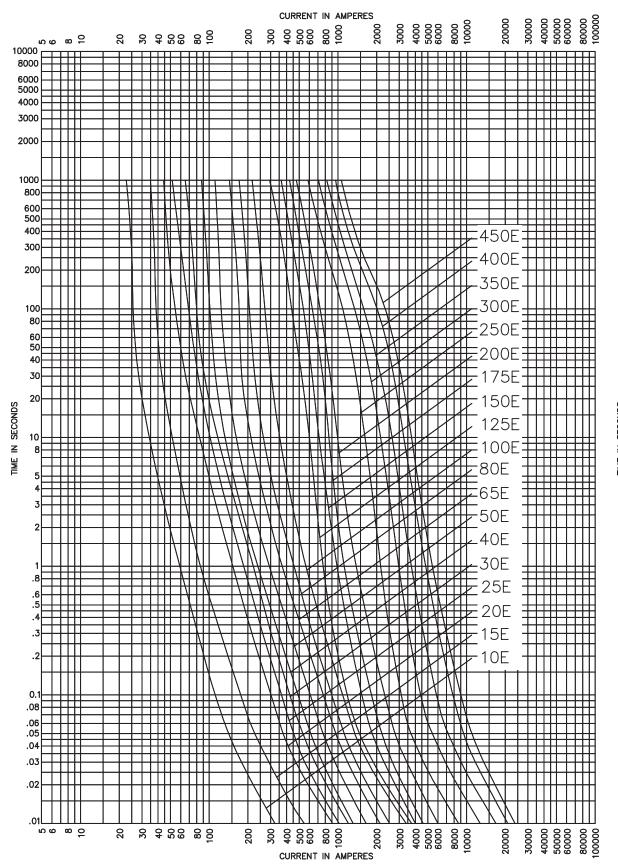
# Dimensions — in (mm)



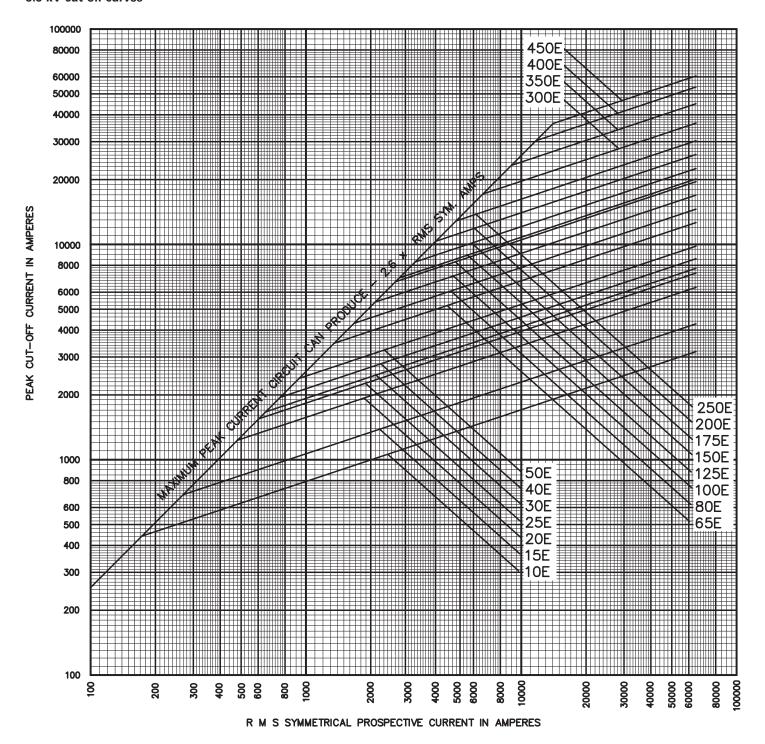
### 5.5 kV time-current curves - minimum melting



### 5.5 kV time-current curves — total clearing



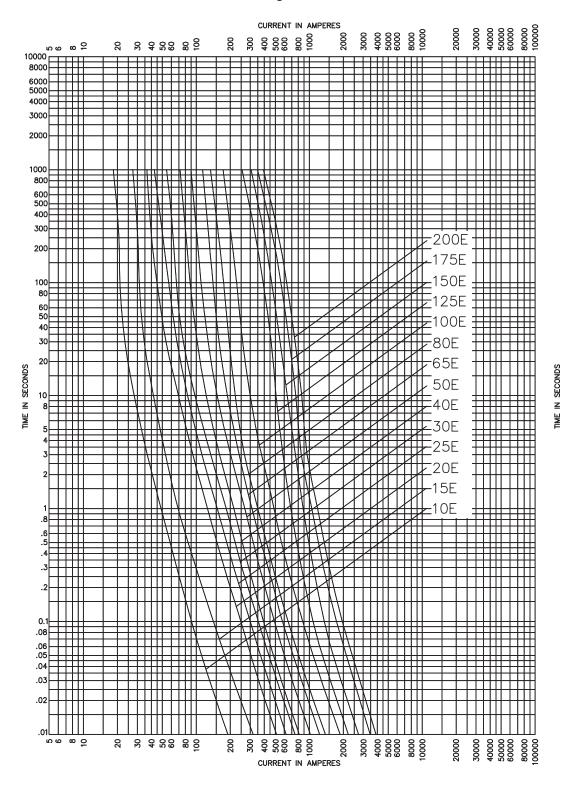
### 5.5 kV cut-off curves



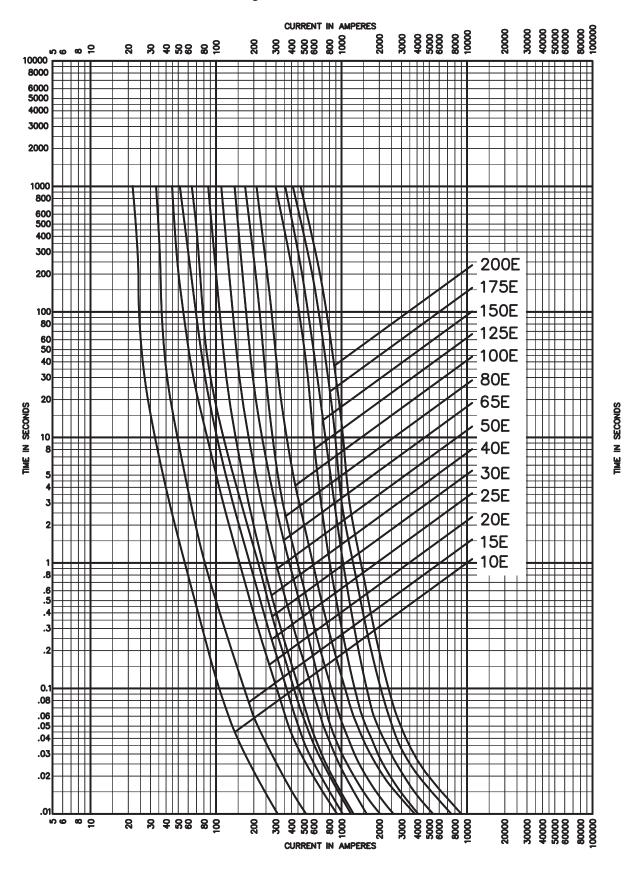
### Notes:

- 1. Curves show extreme maximum values which will not be exceeded under conditions stated in notes 2 and 3 below.
- 2. For high values of prospective current, a symmetrical fault gives the highest cut-off current. For low values of prospective current, where there is little or no current limitation, an asymmetrical fault passes the highest peak current. The curves are therefore based upon the degree of asymmetry which gives the maximum cut-off current at any particular value of prospective current.
- 3. Curves related to frequency of 60 Hz and a recovery voltage equal to the fuse's rated voltage.

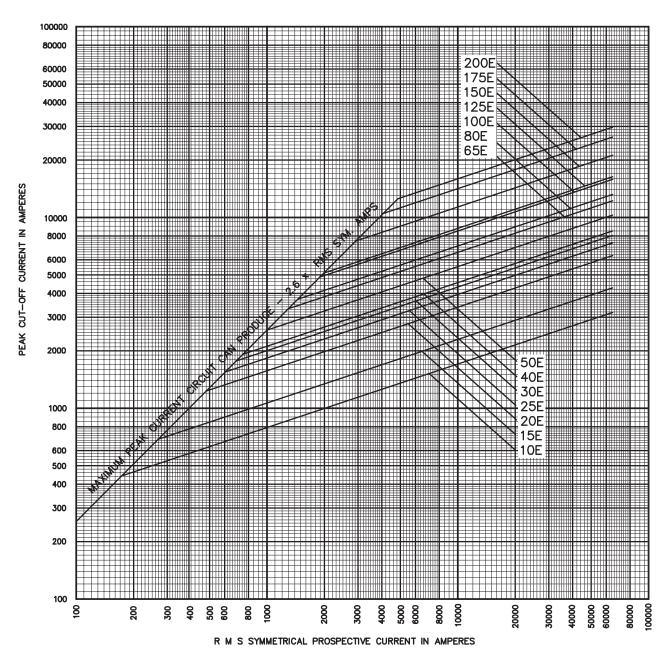
### 15.5 to 17.5 kV time-current curves - minimum melting



15.5 to 17.5 kV time-current curves — total clearing



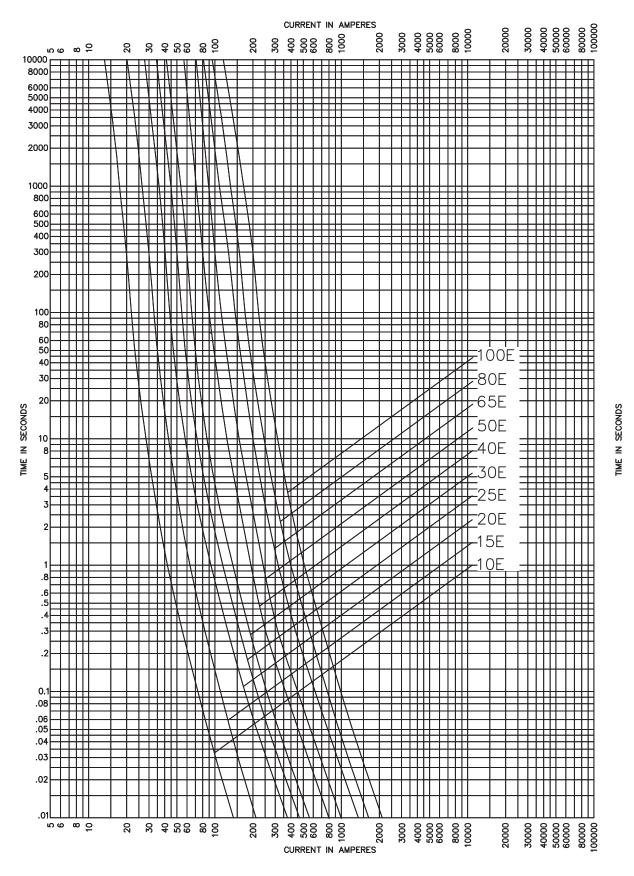
### 15.5 to 17.5 kV cut-off curves



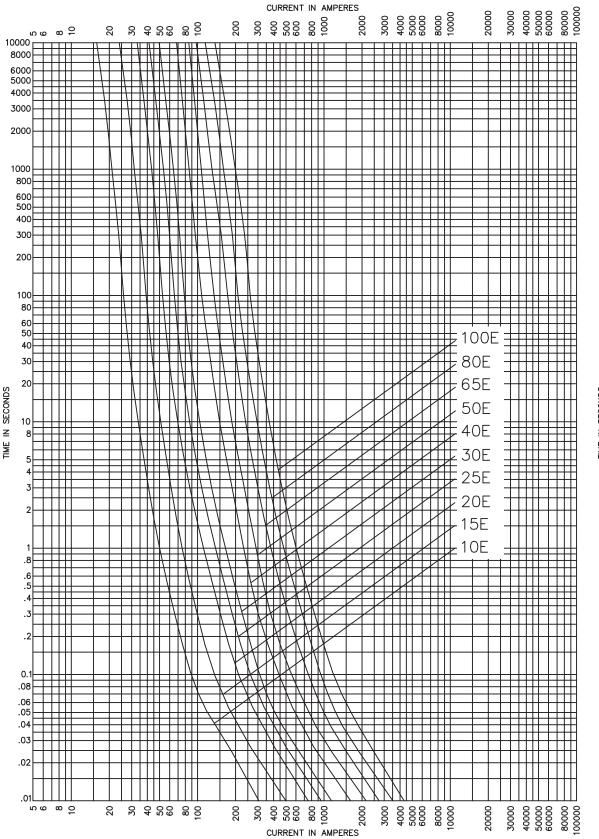
### Notes:

- 1. Curves show extreme maximum values which will not be exceeded under conditions stated in notes 2 and 3 below.
- 2. For high values of prospective current, a symmetrical faults gives the highest cut-off current. For low values of prospective current, where there is little or no current limitation, an asymmetrical fault passes the highest peak current. The curves are therefore based upon the degree of asymmetry which gives the maximum cut-off current at any particular value of prospective current.
- 3. Curves related to frequency of 60 Hz and a recovery voltage equal to the fuse's rated voltage.

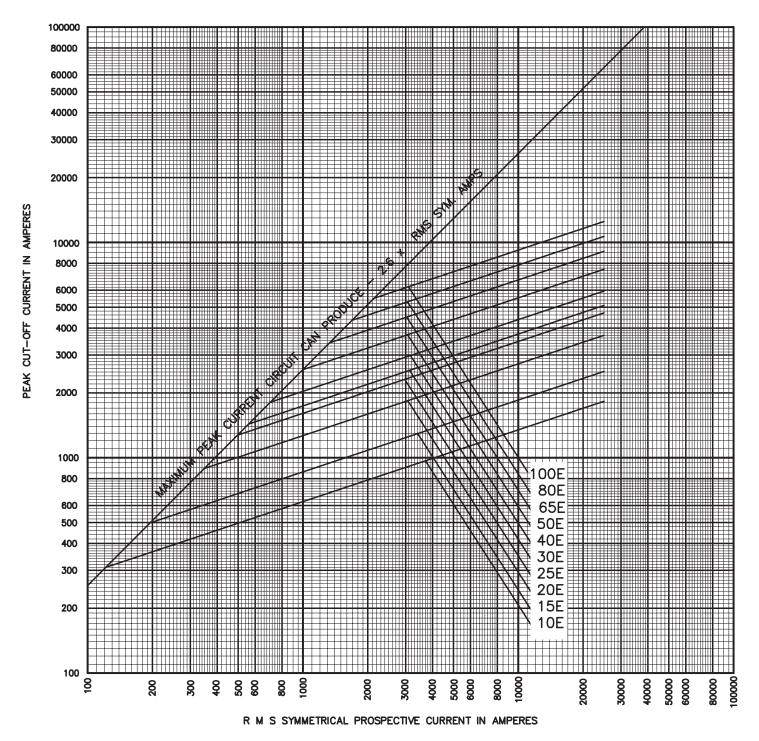
## 25.8 to 38 kV time-current curves - minimum melting



## 25.8 to 38 kV time-current curves - total clearing



# 25.8 to 38 kV cut-off curves

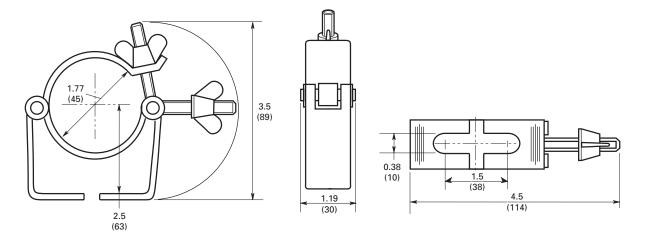


### Notes:

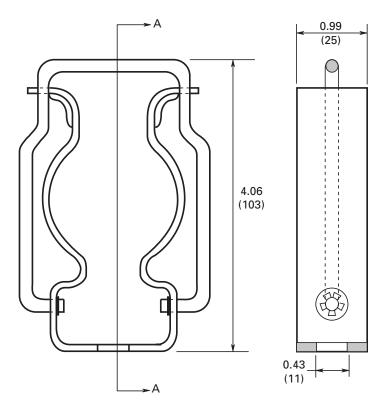
- 1. Curves show extreme maximum values which will not be exceeded under conditions stated in notes 2 and 3 below.
- 2. For high values of prospective current, a symmetrical fault gives the highest cut-off current. For low values of prospective current, where there is little or no current limitation, an asymmetrical fault passes the highest peak current. The curves are therefore based upon the degree of asymmetry which gives the maximum cut-off current at any particular value of prospective current.
- 3. Curves related to frequency of 60 Hz and a recovery voltage equal to the fuse's rated voltage.

# Fuseclip dimensions in (mm)

# Catalog no. A3354745 - not sold in pairs



# Catalog no. 270303



# Bussmann series fuse amp ranges for Square D 600A HVL/CC and HVL switches

Catalog numbers			
HVL/CC versions	HVL versions	Fuse voltage (kV)	Fuse range
Single switch with Square D fuses			
4.76 kV switch volts			
HVLCCA14305D	HVL305DE_		
HVLCCA20305D	_		10.4505
HVLCCB14305D	_	5.5	10-450E
HVLCCB20305D	_		
15 kV switch volts			
HVLCCA14315D	_		
HVLCCA20315D			40.0005
HVLCCB14315D			10-200E
HVLCCB20315D			
_	HVL315DEG2	15.5 or 17.5	125-200E
_	HVL315DEW2		125-200E
_	HVL315DEG1		10-100E
_	HVL315DEW1		10-100E
"Single" switch for cable connection	to Power-Dry II, Power-Cast II, and Uni-Cast II tra	ansformers	
4.76 kV switch volts			
HVLCCA14405DGL	HVL405DEG_		
HVLCCA14405DGR	HVL405DEW		
HVLCCA20405DGL			
HVLCCA20405DGR			
HVLCCB14405DGL		5.5	10-450E
HVLCCB14405DGR	_ <del>_</del>		
HVLCCB20405DGL			
HVLCCB20405DGR	_ <del>_</del>		
15 kV switch volts			
HVLCCA14415DGL			
HVLCCA14415DGR	_ <del>_</del>		
HVLCCA20415DGL			
HVLCCA20415DGR			
HVLCCB14415DGL			10-200E
HVLCCB14415DGR			
HVLCCB20415DGL	_ <del>_</del>		
HVLCCB20415DGR			
TIVECCB20419DGIT	HVL415DEGR1	15.5 or 17.5	10-100E
	HVL415DEGR1		125-200E
	HVL415DEGL1		10-100E
	HVL415DEGL2		125-200E
	HVL415DEWR1H		10-100E
	HVL415DEWR1H		125-200E
			10-100E
	HVL415DEWL1H  HVL415DEWL2H		
"Dunlay" switch for achie connection	n to Power-Dry II, Power-Cast II, and Uni-Cast II tr		125-200E
	n to Power-Dry II, Power-Cast II, and Uni-Cast II tr	anstormers	
4.76 kV switch volts	LIV/I FOEDEC		
HVLCCA14505DGL	HVL505DEG_		
HVLCCA14505DGR	HVL505DEW_		
HVLCCA20505DGL	_ <del>_</del>		
HVLCCA20505DGR	_ <del>_</del>	5.5	10-450E
HVLCCB14505DGL			
HVLCCB14505DGR			
HVLCCB20505DGL			
HVLCCB20505DGR			
15 kV switch volts			
HVLCCA14515DGL	<u> </u>		
HVLCCA14515DGR			
HVLCCA20515DGL			
HVLCCA20515DGR			10-200E
HVLCCB14515DGL			
HVLCCB14515DGR			
HVLCCB20515DGL	<del></del>		
HVLCCB20515DGR		15.5 or 17.5	
	HVL515DEGR1	10-100E 125-200E 10-100E 125-200E 10-100E 125-200E 10-100E	
	HVL515DEGR2		
_	HVL515DEGL1		
	HVL515DEGL2		
_	HVL515DEWR1H		
_	HVL515DEWR2H		
_	HVL515DEWL1H		
_	HVL515DEWL2H		125-200E

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