

## SQUARE BODY Semiconductor

Square Body Fuses provide short circuit protection for semiconductor devices such as diodes, SCR's, etc.

Square Body Fuses are available in three sizes with threaded holes in the metal end caps. They can be supplied with a Flap Indicator or a Center Indicator for visual trip indication.

The Center Indicator has a provision for mounting an Adapter and Microswitch for remote indication.


Semiconductor Fuses offered comply with IEC, DIN and VDE.

### Operating Class

#### aR - Partial Range Protection

(VDE 0636 / IEC 269)

Short circuit protection only.

Typical Markings: *Ultra Rapid™*,  
*Silcu™*, *Protistor™*, aR 

Mostly red, orange, or blue imprint.



### Square Body With Threaded Holes Size 1 Class aR

### Square Body With Threaded Holes Size 2 Class aR

Ordering Information	Current/ Voltage	Cat. No.	Dim.	Std. Pk.	Current/ Voltage	Cat. No.	Dim.	Std. Pk.	
<b>Fuse with Flap Indicator</b> up to 660V AC	80/660V AC	80SB1F0-6	A	1	400/660V AC	400SB2F0-6	C	1	
	100/660V AC	100SB1F0-6	A	1	450/660V AC	450SB2F0-6	C	1	
	125/660V AC	125SB1F0-6	A	1	500/660V AC	500SB2F0-6	C	1	
	160/660V AC	160SB1F0-6	A	1	550/660V AC	550SB2F0-6	C	1	
	200/660V AC	200SB1F0-6	A	1	630/660V AC	630SB2F0-6	C	1	
	250/660V AC	250SB1F0-6	A	1	700/660V AC	700SB2F0-6	C	1	
	315/660V AC	315SB1F0-6	A	1					
	350/660V AC	350SB1F0-6	A	1					
	400/660V AC	400SB1F0-6	A	1					
	450/660V AC	450SB1F0-6	A	1					
	500/660V AC	500SB1F0-6	A	1					
	<b>Fuse with Center Indicator<sup>1</sup></b> up to 660V AC	80/660V AC	80SB1C0-6	A	1	400/660V AC	400SB2C0-6	C	1
		100/660V AC	100SB1C0-6	A	1	450/660V AC	450SB2C0-6	C	1
125/660V AC		125SB1C0-6	A	1	500/660V AC	500SB2C0-6	C	1	
160/660V AC		160SB1C0-6	A	1	550/660V AC	550SB2C0-6	C	1	
200/660V AC		200SB1C0-6	A	1	630/660V AC	630SB2C0-6	C	1	
250/660V AC		250SB1C0-6	A	1	700/660V AC	700SB2C0-6	C	1	
315/660V AC		315SB1C0-6	A	1					
350/660V AC		350SB1C0-6	A	1					
400/660V AC		400SB1C0-6	A	1					
450/660V AC		450SB1C0-6	A	1					
500/660V AC		500SB1C0-6	A	1					
<b>Fuse with Flap Indicator</b> up to 1000V AC		200/1000V AC	200SB1F0-1	B	1	315/1000V AC	315SB2F0-1	D	1
		250/1000V AC	250SB1F0-1	B	1	350/1000V AC	350SB2F0-1	D	1
	315/1000V AC	315SB1F0-1	B	1	400/1000V AC	400SB2F0-1	D	1	
	350/1000V AC	350SB1F0-1	B	1	450/1000V AC	450SB2F0-1	D	1	
	400/1000V AC	400SB1F0-1	B	1	500/1000V AC	500SB2F0-1	D	1	
	450/1000V AC	450SB1F0-1	B	1	556/1000V AC	556SB2F0-1	D	1	
	500/1000V AC	500SB1F0-1	B	1	630/1000V AC	630SB2F0-1	D	1	
<b>Fuse with Center Indicator<sup>1</sup></b> up to 1000V AC	200/1000V AC	200SB1C0-1	B	1	315/1000V AC	315SB2C0-1	D	1	
	250/1000V AC	250SB1C0-1	B	1	350/1000V AC	350SB2C0-1	D	1	
	315/1000V AC	315SB1C0-1	B	1	400/1000V AC	400SB2C0-1	D	1	
	350/1000V AC	350SB1C0-1	B	1	450/1000V AC	450SB2C0-1	D	1	
	400/1000V AC	400SB1C0-1	B	1	500/1000V AC	500SB2C0-1	D	1	
	450/1000V AC	450SB1C0-1	B	1	556/1000V AC	556SB2C0-1	D	1	
	500/1000V AC	500SB1C0-1	B	1	630/1000V AC	630SB2C0-1	D	1	
<b>Adapter for Microswitch<sup>1</sup></b> See installation on pg 27.	660V	SBA6		1	660V	SBA6		1	
	1000V	SBA1		1	1000V	SBA1		1	
<b>Microswitch<sup>2</sup> (SPDT)</b> See installation on pg 27.	6/250V AC	SBMS		1	6/250V AC	SBMS		1	

<sup>1</sup> We recommend the Adapter be used on Fuses with Center Indicators whether or not a Microswitch is used.

<sup>2</sup> An Adapter is required to mount the Microswitch. (Adapters will not fit on fuses with Flap Indicators)



**Square Body  
With Threaded Holes  
Size 3  
Class aR**

Current/ Voltage	Cat. No.	Dim.	Std. Pk.
500/660V AC	500SB3F0-6	E	1
550/660V AC	550SB3F0-6	E	1
630/660V AC	630SB3F0-6	E	1
700/660V AC	700SB3F0-6	E	1
800/660V AC	800SB3F0-6	E	1
900/660V AC	900SB3F0-6	E	1
1000/660V AC	1000SB3F0-6	E	1

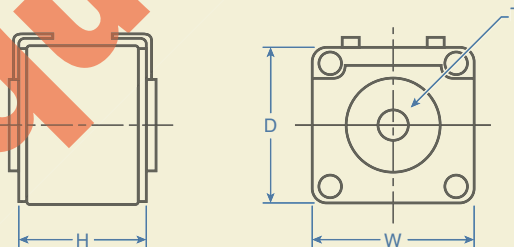
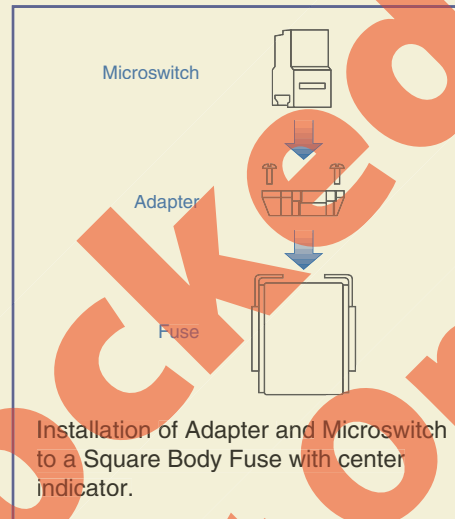
500/660V AC	500SB3C0-6	E	1
550/660V AC	550SB3C0-6	E	1
630/660V AC	630SB3C0-6	E	1
700/660V AC	700SB3C0-6	E	1
800/660V AC	800SB3C0-6	E	1
900/660V AC	900SB3C0-6	E	1
1000/660V AC	1000SB3C0-6	E	1

500/1000V AC	500SB3F0-1	F	1
550/1000V AC	550SB3F0-1	F	1
630/1000V AC	630SB3F0-1	F	1
700/1000V AC	700SB3F0-1	F	1
800/1000V AC	800SB3F0-1	F	1
1000/1000V AC	1000SB3F0-1	F	1

500/1000V AC	500SB3C0-1	F	1
550/1000V AC	550SB3C0-1	F	1
630/1000V AC	630SB3C0-1	F	1
700/1000V AC	700SB3C0-1	F	1
800/1000V AC	800SB3C0-1	F	1
1000/1000V AC	1000SB3C0-1	F	1

660V	SBA6	1
1000V	SBA1	1

6/250V AC	SBMS	1
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**Approximate Dimensions  
for Square Body Fuses mm (in.)\***

Fuse Size/Dim.	Body Width (W)	Body Height (H)	Body Depth (D)	Thread Dia. (T)
1/A	51 (2.00)	52 (2.05)	51 (2.00)	M8 (.314)
1/B	51 (2.00)	75 (2.95)	51 (2.00)	M8 (.314)
2/C	60 (2.36)	52 (2.05)	60 (2.36)	M10 (.393)
2/D	60 (2.36)	75 (2.95)	60 (2.36)	M10 (.393)
3/E	75 (2.95)	52 (2.05)	75 (2.95)	M12 (.472)
3/F	75 (2.95)	75 (2.95)	75 (2.95)	M12 (.472)

\*Dimensions to DIN 43653

## SQUARE BODY Semiconductor

Square Body Fuses provide short circuit protection for semiconductor devices such as diodes, SCR's, etc.

Square Body Fuses are available in three sizes with knife blades in two fixing lengths, 80mm (3.15 in.) and 110mm (4.33 in.). They can be supplied with a Flap Indicator or a Center Indicator for visual trip indication. The Center Indicator has a provision for mounting an Adapter and Microswitch for remote indication.

Semiconductor Fuses offered comply with IEC, DIN and VDE.

### Operating Class

#### aR - Partial Range Protection

(VDE 0636 / IEC 269)

Short circuit protection only.

Typical Markings: Ultra Rapid™, Silcu™, Protistor™, aR,  

Mostly red, orange, or blue imprint.



**Square Body**  
With Knife Blade 80mm (3.15 in.)  
Size 1  
Class aR



**Square Body**  
With Knife Blade 80mm (3.15 in.)  
Size 2  
Class aR

Ordering Information	Current/ Voltage	Cat. No.	Std. Pk.	Current/ Voltage	Cat. No.	Std. Pk.	
<b>Fuse with Flap Indicator</b> up to 660V AC	80/660V AC	80SB1F8-6	1	400/660V AC	400SB2F8-6	1	
	100/660V AC	100SB1F8-6	1	450/660V AC	450SB2F8-6	1	
	125/660V AC	125SB1F8-6	1	500/660V AC	500SB2F8-6	1	
	160/660V AC	160SB1F8-6	1	550/660V AC	550SB2F8-6	1	
	200/660V AC	200SB1F8-6	1	630/660V AC	630SB2F8-6	1	
	250/660V AC	250SB1F8-6	1	700/660V AC	700SB2F8-6	1	
	315/660V AC	315SB1F8-6	1				
	350/660V AC	350SB1F8-6	1				
	400/660V AC	400SB1F8-6	1				
	450/660V AC	450SB1F8-6	1				
	500/660V AC	500SB1F8-6	1				
	<b>Fuse with Center Indicator<sup>1</sup></b> up to 660V AC	80/660V AC	80SB1C8-6	1	400/660V AC	400SB2C8-6	1
		100/660V AC	100SB1C8-6	1	450/660V AC	450SB2C8-6	1
125/660V AC		125SB1C8-6	1	500/660V AC	500SB2C8-6	1	
160/660V AC		160SB1C8-6	1	550/660V AC	550SB2C8-6	1	
200/660V AC		200SB1C8-6	1	630/660V AC	630SB2C8-6	1	
250/660V AC		250SB1C8-6	1	700/660V AC	700SB2C8-6	1	
315/660V AC		315SB1C8-6	1				
350/660V AC		350SB1C8-6	1				
400/660V AC		400SB1C8-6	1				
450/660V AC		450SB1C8-6	1				
500/660V AC		500SB1C8-6	1				
<b>Adapter<sup>1</sup></b> (See installation on page 29)		660V	SBA6	1	660V	SBA6	1
<b>Microswitch<sup>2</sup> (SPDT)</b> See installation on pg 29		6/250V AC	SBMS	1	6/250V AC	SBMS	1

<sup>1</sup> We recommend the Adapter be used on Fuses with Center Indicators whether or not a Microswitch is used.

<sup>2</sup> An Adapter is required to mount the Microswitch. (Adapters will not fit on fuses with Flap Indicators)

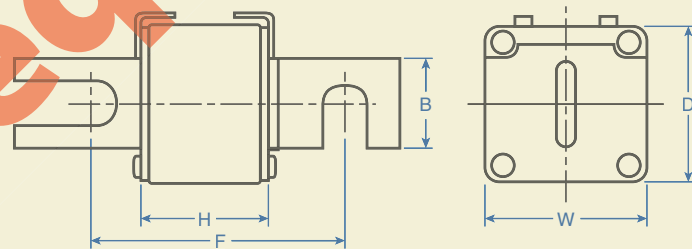
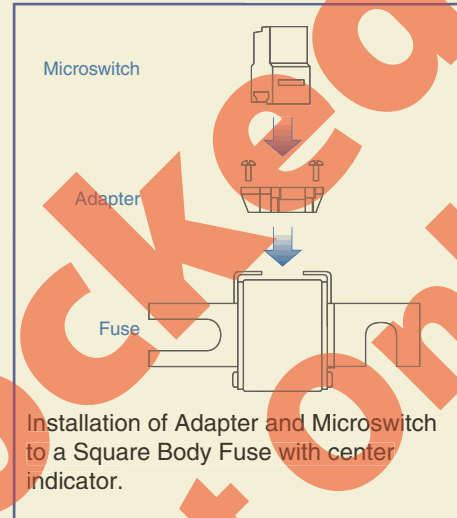


**Square Body**  
**With Knife Blade 80mm (3.15 in.)**  
**Size 3**  
**Class aR**

Current/ Voltage	Cat. No.	Std. Pk.
500/660V AC	500SB3F8-6	1
550/660V AC	550SB3F8-6	1
630/660V AC	630SB3F8-6	1
700/660V AC	700SB3F8-6	1
800/660V AC	800SB3F8-6	1
900/660V AC	900SB3F8-6	1
1000/660V AC	1000SB3F8-6	1

500/660V AC	500SB3C8-6	1
550/660V AC	550SB3C8-6	1
630/660V AC	630SB3C8-6	1
700/660V AC	700SB3C8-6	1
800/660V AC	800SB3C8-6	1
900/660V AC	900SB3C8-6	1
1000/660V AC	1000SB3C8-6	1

660V	SBA6	1
6/250V AC	SBMS	1



**Approximate Dimensions**  
**for Square Body Fuses mm (in.)\***

Fuse Size	Body Width (W)	Body Depth (D)	Body Height (H)	Blade Depth (B)	Fixing Length** (F)
1	51 (2.00)	50 (1.97)	50 (1.97)	25 (0.98)	80 (3.15)
2	60 (2.36)	60 (2.36)	50 (1.97)	25 (0.98)	80 (3.15)
3	75 (2.95)	75 (2.95)	50 (1.97)	30 (1.18)	80 (3.15)

\* Dimensions to DIN 43653

\*\* Can be between 78mm (3.07 in.) and 80mm (3.15 in.)

## SQUARE BODY Semiconductor


Square Body Fuses provide short circuit protection for semiconductor devices such as diodes, SCR's, etc. Fuses with knife blades are typically used in high power applications of 80 to 1000A at 660 or 1000V.

Square Body Fuses are available in three sizes with knife blades in two fixing lengths, 80mm (3.15 in.) and 110mm (4.33 in.). They can be supplied with a Flap Indicator or a Center Indicator for visual trip indication. The Center Indicator has a provision for mounting an Adapter and Microswitch for remote indication. Semiconductor Fuses offered comply with IEC, DIN and VDE.

### Operating Class

**aR - Partial Range Protection**  
(VDE 0636 / IEC 269)

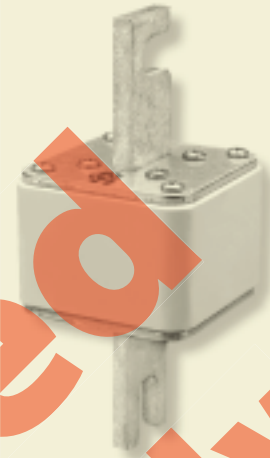
Short circuit protection only.

Typical Markings: Ultra Rapid™, Silcu™, Protistor™, aR, 

Mostly red, orange, or blue imprint.



**Square Body**  
**With Knife Blade 110mm (4.33 in.)**  
**Size 1**  
**Class aR**



**Square Body**  
**With Knife Blade 110mm (4.33 in.)**  
**Size 2**  
**Class aR**

Ordering Information	Current/ Voltage	Cat. No.	Dim.	Std. Pk.	Current/ Voltage	Cat. No.	Dim.	Std. Pk.	
<b>Fuse with Flap Indicator</b> up to 660V AC	80/660V AC	80SB1F1-6	A	1	400/660V AC	400SB2F1-6	C	1	
	100/660V AC	100SB1F1-6	A	1	450/660V AC	450SB2F1-6	C	1	
	125/660V AC	125SB1F1-6	A	1	500/660V AC	500SB2F1-6	C	1	
	160/660V AC	160SB1F1-6	A	1	550/660V AC	550SB2F1-6	C	1	
	200/660V AC	200SB1F1-6	A	1	630/660V AC	630SB2F1-6	C	1	
	250/660V AC	250SB1F1-6	A	1	700/660V AC	700SB2F1-6	C	1	
	315/660V AC	315SB1F1-6	A	1					
	350/660V AC	350SB1F1-6	A	1					
	400/660V AC	400SB1F1-6	A	1					
	450/660V AC	450SB1F1-6	A	1					
	500/660V AC	500SB1F1-6	A	1					
	<b>Fuse with Center Indicator<sup>1</sup></b> up to 660V AC	80/660V AC	80SB1C1-6	A	1	400/660V AC	400SB2C1-6	C	1
		100/660V AC	100SB1C1-6	A	1	450/660V AC	450SB2C1-6	C	1
125/660V AC		125SB1C1-6	A	1	500/660V AC	500SB2C1-6	C	1	
160/660V AC		160SB1C1-6	A	1	550/660V AC	550SB2C1-6	C	1	
200/660V AC		200SB1C1-6	A	1	630/660V AC	630SB2C1-6	C	1	
250/660V AC		250SB1C1-6	A	1	700/660V AC	700SB2C1-6	C	1	
315/660V AC		315SB1C1-6	A	1					
350/660V AC		350SB1C1-6	A	1					
400/660V AC		400SB1C1-6	A	1					
450/660V AC		450SB1C1-6	A	1					
500/660V AC		500SB1C1-6	A	1					
<b>Fuse with Flap Indicator</b> up to 1000V AC		200/1000V AC	200SB1F1-1	B	1	315/1000V AC	315SB2F1-1	D	1
		250/1000V AC	250SB1F1-1	B	1	350/1000V AC	350SB2F1-1	D	1
	315/1000V AC	315SB1F1-1	B	1	400/1000V AC	400SB2F1-1	D	1	
	350/1000V AC	350SB1F1-1	B	1	450/1000V AC	450SB2F1-1	D	1	
	400/1000V AC	400SB1F1-1	B	1	500/1000V AC	500SB2F1-1	D	1	
	450/1000V AC	450SB1F1-1	B	1	556/1000V AC	556SB2F1-1	D	1	
	500/1000V AC	500SB1F1-1	B	1	630/1000V AC	630SB2F1-1	D	1	
<b>Fuse with Center Indicator<sup>1</sup></b> up to 1000V AC	200/1000V AC	200SB1C1-1	B	1	315/1000V AC	315SB2C1-1	D	1	
	250/1000V AC	250SB1C1-1	B	1	350/1000V AC	350SB2C1-1	D	1	
	315/1000V AC	315SB1C1-1	B	1	400/1000V AC	400SB2C1-1	D	1	
	350/1000V AC	350SB1C1-1	B	1	450/1000V AC	450SB2C1-1	D	1	
	400/1000V AC	400SB1C1-1	B	1	500/1000V AC	500SB2C1-1	D	1	
	450/1000V AC	450SB1C1-1	B	1	556/1000V AC	556SB2C1-1	D	1	
	500/1000V AC	500SB1C1-1	B	1	630/1000V AC	630SB2C1-1	D	1	
<b>Adapter<sup>1</sup></b> See installation on pg 31	660V	SBA6		1	660V	SBA6		1	
	1000V	SBA1		1	1000V	SBA1		1	
<b>Microswitch<sup>2</sup> (SPDT)</b> See installation on pg 31	6/250V AC	SBMS		1	6/250V AC	SBMS		1	

<sup>1</sup> We recommend the Adapter be used on Fuses with Center Indicators whether or not a Microswitch is used.

<sup>2</sup> An Adapter is required to mount the Microswitch. (Adapters will not fit on fuses with Flap Indicators)



**Square Body**  
**With Knife Blade 110mm (4.33 in.)**  
**Size 3**  
**Class aR**

Current/ Voltage	Cat. No.	Dim.	Std. Pk.
500/660V AC	500SB3F1-6	E	1
550/660V AC	550SB3F1-6	E	1
630/660V AC	630SB3F1-6	E	1
700/660V AC	700SB3F1-6	E	1
800/660V AC	800SB3F1-6	E	1
900/660V AC	900SB3F1-6	E	1
1000/660V AC	1000SB3F1-6	E	1

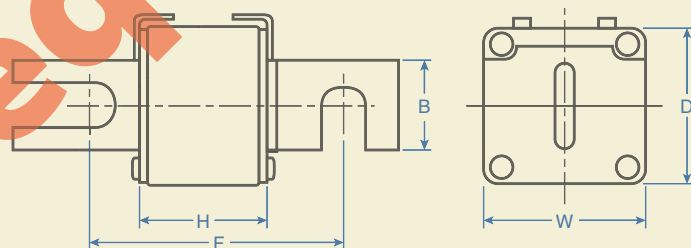
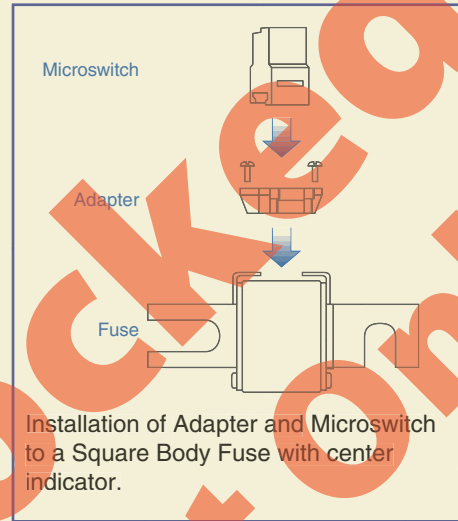
500/660V AC	500SB3C1-6	E	1
550/660V AC	550SB3C1-6	E	1
630/660V AC	630SB3C1-6	E	1
700/660V AC	700SB3C1-6	E	1
800/660V AC	800SB3C1-6	E	1
900/660V AC	900SB3C1-6	E	1
1000/660V AC	1000SB3C1-6	E	1

500/1000V AC	500SB3F1-1	F	1
550/1000V AC	550SB3F1-1	F	1
630/1000V AC	630SB3F1-1	F	1
700/1000V AC	700SB3F1-1	F	1
800/1000V AC	800SB3F1-1	F	1
1000/1000V AC	1000SB3F1-1	F	1

500/1000V AC	500SB3C1-1	F	1
550/1000V AC	550SB3C1-1	F	1
630/1000V AC	630SB3C1-1	F	1
700/1000V AC	700SB3C1-1	F	1
800/1000V AC	800SB3C1-1	F	1
1000/1000V AC	1000SB3C1-1	F	1

660V	SBA6	1
1000V	SBA1	1

6/250V AC	SBMS	1
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**Approximate Dimensions**  
**for Square Body Fuses mm(in.)\***

Fuse Size/Dim.	Body Width (W)	Body Depth (D)	Body Height (H)	Blade Depth (B)	Fixing Length** (F)
1/A	51 (2.01)	51 (2.01)	50 (1.97)	25 (.98)	110 (4.33)
1/B	51 (2.01)	51 (2.01)	73 (2.87)	25 (.98)	110 (4.33)
2/C	60 (2.36)	60 (2.36)	50 (1.97)	25 (.98)	110 (4.33)
2/D	60 (2.36)	60 (2.36)	73 (2.87)	25 (.98)	110 (4.33)
3/E	75 (2.95)	75 (2.95)	50 (1.97)	30 (1.18)	110 (4.33)
3/F	75 (2.95)	75 (2.95)	73 (2.87)	30 (1.18)	110 (4.33)

\*Dimensions to DIN 43653

\*\* Can be between 108mm (4.25) and 110mm (4.33)

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[170M1564D](#) [170M4241](#) [ESD63](#) [ABS-30](#) [ABS-8](#) [FWP-25A14FI](#) [FWP-80A22FI](#) [30CIF06](#) [32CMLC](#) [32NH00AM-6](#) [TDC180-2](#) [TPL-BL](#)  
[TPS-5](#) [KLC40](#) [WKL](#) [NITD25](#) [04450080FX850](#) [NITD16](#) [LA60Q152](#) [LA60Q402](#) [ECF-5](#) [TDC180-10](#) [TDC180-7](#) [TPM-25](#) [3AG-312](#)  
[16NHG000B](#) [170M3509](#) [DEO200](#) [DD200M250](#) [BP/S-6-1/4](#) [170M3510](#) [TPH-300](#) [EFS200](#) [170M0161](#) [170M6016](#) [BK/F02B-1/2A](#)