






### 3TX71 plug-in relays

#### Selection and ordering data


##### AC and DC operation

Version	Rated control supply voltage	Contact configuration	Contact rating	Order no.	List Price \$	Weight approx. kg	Pack units
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#### Premium line, miniature relays

	<b>Single modules</b> for self-assembly with LED, Push to Test with Lock-Down Door and mechanical indicator	24 V AC	SPDT	20 A	<b>3TX7109-5JC13</b>	<b>11.00</b>	
		120 V AC	SPDT	20 A	<b>3TX7109-5JF13</b>	<b>11.00</b>	
		220/230 V AC	SPDT	20 A	<b>3TX7109-5JG13</b>	<b>11.00</b>	
		12 V DC	SPDT	20 A	<b>3TX7109-5JB03</b>	<b>11.00</b>	
		24 V DC	SPDT	20 A	<b>3TX7109-5JC03</b>	<b>11.00</b>	
		24 V AC	SPDT	15 A	<b>3TX7110-5JC13</b>	<b>10.00</b>	
		120 V AC	SPDT	15 A	<b>3TX7110-5JF13</b>	<b>10.00</b>	
		220/230 V AC	SPDT	15 A	<b>3TX7110-5JG13</b>	<b>10.00</b>	
		12 V DC	SPDT	15 A	<b>3TX7110-5JB03</b>	<b>10.00</b>	
		24 V DC	SPDT	15 A	<b>3TX7110-5JC03</b>	<b>10.00</b>	
		24 V AC	DPDT	10 A	<b>3TX7111-3LC13</b>	<b>11.00</b>	
		120 V AC	DPDT	10 A	<b>3TX7111-3LF13</b>	<b>11.00</b>	
		24 V DC	DPDT	10 A	<b>3TX7111-3LC03</b>	<b>11.00</b>	
		12 V AC	4PDT	10 A	<b>3TX7111-3PB13</b>	<b>11.50</b>	
		24 V AC	4PDT	10 A	<b>3TX7111-3PC13</b>	<b>11.50</b>	
		120 V AC	4PDT	10 A	<b>3TX7111-3PF13</b>	<b>11.50</b>	
		230 V AC	4PDT	10 A	<b>3TX7111-3PG13</b>	<b>11.50</b>	
		6 V DC	4PDT	10 A	<b>3TX7111-3PA03</b>	<b>11.50</b>	
		12 V DC	4PDT	10 A	<b>3TX7111-3PB03</b>	<b>11.50</b>	
		24 V DC	4PDT	10 A	<b>3TX7111-3PC03</b>	<b>11.50</b>	
		24 V AC	DPDT	15 A	<b>3TX7114-5LC13</b>	<b>11.50</b>	
		120 V AC	DPDT	15 A	<b>3TX7114-5LF13</b>	<b>11.50</b>	
		240 V AC	DPDT	15 A	<b>3TX7114-5LG13</b>	<b>11.50</b>	
		12 V DC	DPDT	15 A	<b>3TX7114-5LB03</b>	<b>11.50</b>	
		24 V DC	DPDT	15 A	<b>3TX7114-5LC03</b>	<b>11.50</b>	
		110 V DC	DPDT	15 A	<b>3TX7114-5LF03</b>	<b>11.50</b>	
		24 V AC	3PDT	15 A	<b>3TX7116-5NC13</b>	<b>11.50</b>	
		120 V AC	3PDT	15 A	<b>3TX7116-5NF13</b>	<b>11.50</b>	
		240 V AC	3PDT	15 A	<b>3TX7116-5NG13</b>	<b>12.25</b>	
		24 V DC	3PDT	15 A	<b>3TX7116-5NC03</b>	<b>11.50</b>	
110 V DC	3PDT	15 A	<b>3TX7116-5NF03</b>	<b>12.25</b>			
		24 V AC	4PDT	15 A	<b>3TX7117-5PC13</b>	<b>14.50</b>	
		120 V AC	4PDT	15 A	<b>3TX7117-5PF13</b>	<b>17.00</b>	
		240 V AC	4PDT	15 A	<b>3TX7117-5PG13</b>	<b>16.00</b>	
		24 V DC	4PDT	15 A	<b>3TX7117-5PC03</b>	<b>17.00</b>	
		110 V DC	4PDT	15 A	<b>3TX7117-5PF03</b>	<b>16.00</b>	
		Socket for 3TX7110	-	-	<b>3TX7144-1E7</b>	<b>8.00</b>	
		Socket for 3TX7111	-	-	<b>3TX7144-1E5</b>	<b>12.50</b>	
		Socket for 3TX7109/7114	-	-	<b>3TX7144-1E6</b>	<b>9.00</b>	
		Socket for 3TX7116	-	-	<b>3TX7144-1E8</b>	<b>11.00</b>	
		Socket for 3TX7117	-	-	<b>3TX7144-1E9</b>	<b>11.00</b>	
Touchsafe socket for 3TX7109/7114	-	-	<b>3TX7144-4E6</b>	<b>7.00</b>			

#### Accessories






	3TX7144-4E6	Flange adapter for 3TX7110	<b>3TX7144-3L5</b>	<b>0.75</b>
		DIN adapter for 3TX7110	<b>3TX7144-3L4</b>	<b>1.25</b>
		Hold/eject clip for 3TX7111 and 3TX7114	<b>3TX7144-1L1</b>	<b>0.75</b>
		Flange adapter for 3TX7111 and 3TX7114	<b>3TX7144-3L5</b>	<b>0.75</b>
		DIN adapter for 3TX7111 and 3TX7114	<b>3TX7144-3L4</b>	<b>1.25</b>
		Flange adapter for 3TX7116	<b>3TX7144-1M3</b>	<b>0.75</b>
		DIN adapter for 3TX7116	<b>3TX7144-1M4</b>	<b>1.25</b>
		Flange adapter for 3TX7117	<b>3TX7144-1M35</b>	<b>0.75</b>
		DIN adapter for 3TX7117	<b>3TX7144-1M6</b>	<b>1.25</b>
		<b>Accessories for 3TX7144-4E6 only</b>		
		MOV suppressor 24 VAC/VDC	<b>3TX7144-H9</b>	<b>3.00</b>
		MOV suppressor 120 VAC/VDC	<b>3TX7144-H10</b>	<b>3.00</b>
		MOV suppressor 240 VAC/VDC	<b>3TX7144-H11</b>	<b>3.00</b>
		Protection diode 6-250 VDC	<b>3TX7144-H12</b>	<b>2.00</b>
		LED, green 24 VAC/VDC	<b>3TX7144-H13</b>	<b>1.00</b>
	LED, green 120/240 VAC/VDC	<b>3TX7144-H14</b>	<b>1.00</b>	
	Jumper bar	<b>3TX7144-H15</b>	<b>1.00</b>	

Selection and ordering data


AC and DC operation

Version	Rated control supply voltage	Contact configuration	Contact rating	Order no.	List Price \$	Weight approx. kg	Pack units
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Basic line, miniature relays

	<b>Single modules</b> with mechanical flag only	24 V AC	SPDT	20 A	<b>3TX7109-5BC13C</b>	<b>8.00</b>	
		120 V AC	SPDT	20 A	<b>3TX7109-5BF13C</b>	<b>8.00</b>	
		220/230 V AC	SPDT	20 A	<b>3TX7109-5BG13C</b>	<b>8.00</b>	
		12 V DC	SPDT	20 A	<b>3TX7109-5BB03C</b>	<b>8.00</b>	
		24 V DC	SPDT	20 A	<b>3TX7109-5BC03C</b>	<b>8.00</b>	
		24 V AC	SPDT	15 A	<b>3TX7110-5BC13C</b>	<b>7.00</b>	
		120 V AC	SPDT	15 A	<b>3TX7110-5BF13C</b>	<b>7.00</b>	
		220/230 V AC	SPDT	15 A	<b>3TX7110-5BG13C</b>	<b>7.00</b>	
		12 V DC	SPDT	15 A	<b>3TX7110-5BB03C</b>	<b>7.00</b>	
		24 V DC	SPDT	15 A	<b>3TX7110-5BC03C</b>	<b>7.00</b>	
		24 V AC	DPDT	10 A	<b>3TX7111-3DC13C</b>	<b>8.00</b>	
		120 V AC	DPDT	10 A	<b>3TX7111-3DF13C</b>	<b>8.00</b>	
		24 V DC	DPDT	10 A	<b>3TX7111-3DC03C</b>	<b>8.00</b>	
		12 V AC	4PDT	10 A	<b>3TX7111-3HB13C</b>	<b>8.50</b>	
		24 V AC	4PDT	10 A	<b>3TX7111-3HC13C</b>	<b>8.50</b>	
		120 V AC	4PDT	10 A	<b>3TX7111-3HF13C</b>	<b>8.50</b>	
		230 V AC	4PDT	10 A	<b>3TX7111-3HG13C</b>	<b>8.50</b>	
		6 V DC	4PDT	10 A	<b>3TX7111-3HA03C</b>	<b>8.50</b>	
		12 V DC	4PDT	10 A	<b>3TX7111-3HB03C</b>	<b>8.50</b>	
		24 V DC	4PDT	10 A	<b>3TX7111-3HC03C</b>	<b>8.50</b>	
		24 V AC	DPDT	15 A	<b>3TX7114-5DC13C</b>	<b>8.50</b>	
		120 V AC	DPDT	15 A	<b>3TX7114-5DF13C</b>	<b>8.50</b>	
		240 V AC	DPDT	15 A	<b>3TX7114-5DG13C</b>	<b>8.50</b>	
		12 V DC	DPDT	15 A	<b>3TX7114-5DB03C</b>	<b>8.50</b>	
		24 V DC	DPDT	15 A	<b>3TX7114-5DC03C</b>	<b>8.50</b>	
		110 V DC	DPDT	15 A	<b>3TX7114-5DF03C</b>	<b>8.50</b>	
		24 V AC	3PDT	15 A	<b>3TX7116-5FC13C</b>	<b>8.50</b>	
		120 V AC	3PDT	15 A	<b>3TX7116-5FF13C</b>	<b>8.50</b>	
		240 V AC	3PDT	15 A	<b>3TX7116-5FG13C</b>	<b>8.50</b>	
		24 V DC	3PDT	15 A	<b>3TX7116-5FC03C</b>	<b>8.50</b>	
		110 V DC	3PDT	15 A	<b>3TX7116-5FF03C</b>	<b>8.50</b>	
		24 V AC	4PDT	15 A	<b>3TX7117-5HC13C</b>	<b>11.00</b>	
		120 V AC	4PDT	15 A	<b>3TX7117-5HF13C</b>	<b>11.00</b>	
		240 V AC	4PDT	15 A	<b>3TX7117-5HG13C</b>	<b>11.00</b>	
		24 V DC	4PDT	15 A	<b>3TX7117-5HC03C</b>	<b>11.00</b>	
		110 V DC	4PDT	15 A	<b>3TX7117-5HF03C</b>	<b>11.00</b>	
		Socket for 3TX7110	-	-	<b>3TX7144-1E7</b>	<b>8.00</b>	
		Socket for 3TX7111	-	-	<b>3TX7144-1E5</b>	<b>12.50</b>	
		Socket for 3TX7109/7114	-	-	<b>3TX7144-1E6</b>	<b>11.00</b>	
		Socket for 3TX7116	-	-	<b>3TX7144-1E8</b>	<b>11.00</b>	
		Socket for 3TX7117	-	-	<b>3TX7144-1E9</b>	<b>11.00</b>	
		Touchsafe socket for 3TX7109/7114	-	-	<b>3TX7144-4E6</b>	<b>7.00</b>	

Accessories

	Flange adapter for 3TX7110	<b>3TX7144-3L5</b>	<b>0.75</b>
	DIN adapter for 3TX7110	<b>3TX7144-3L4</b>	<b>1.25</b>
	Hold/eject clip for 3TX7111 and 3TX7114	<b>3TX7144-1L1</b>	<b>0.75</b>
	Flange adapter for 3TX7111 and 3TX7114	<b>3TX7144-3L5</b>	<b>0.75</b>
	DIN adapter for 3TX7111 and 3TX7114	<b>3TX7144-3L4</b>	<b>1.25</b>
	Flange adapter for 3TX7116	<b>3TX7144-1M3</b>	<b>0.75</b>
	DIN adapter for 3TX7116	<b>3TX7144-1M4</b>	<b>1.25</b>
	Flange adapter for 3TX7117	<b>3TX7144-1M5</b>	<b>0.75</b>
	DIN adapter for 3TX7117	<b>3TX7144-1M6</b>	<b>1.25</b>
	<b>Accessories for 3TX7144-4E6 only</b>		
	MOV suppressor 24 VAC/VDC	<b>3TX7144-H9</b>	<b>3.00</b>
	MOV suppressor 120 VAC/VDC	<b>3TX7144-H10</b>	<b>3.00</b>
	MOV suppressor 240 VAC/VDC	<b>3TX7144-H11</b>	<b>3.00</b>
	Protection diode 6-250 VDC	<b>3TX7144-H12</b>	<b>2.00</b>
	LED, green 24 VAC/VDC	<b>3TX7144-H13</b>	<b>1.00</b>
LED, green 120/240 VAC/VDC	<b>3TX7144-H14</b>	<b>1.00</b>	
Jumper bar	<b>3TX7144-H15</b>	<b>1.00</b>	







### 3TX71 plug-in relays

#### Selection and ordering data

##### AC and DC operation

Version	Rated control supply voltage	Contact configuration	Contact rating	Order no.	List Price \$	Weight approx. kg	Pack units
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#### Basic line, miniature relays

	<b>Single modules</b> for self-assembly without LED, with flag	12 V AC	4PDT	3 A	<b>3TX7126-3HB10</b>	<b>9.00</b>			
		24 V AC	4PDT	3 A	<b>3TX7126-3HC10</b>	<b>9.00</b>			
		120 V AC	4PDT	3 A	<b>3TX7126-3HF10</b>	<b>9.00</b>			
		12 V DC	4PDT	3 A	<b>3TX7126-3HB00</b>	<b>9.00</b>			
		24 V DC	4PDT	3 A	<b>3TX7126-3HC00</b>	<b>9.00</b>			
		110 V DC	4PDT	3 A	<b>3TX7126-3HF00</b>	<b>9.00</b>			
		24 V AC	4PDT	5 A	<b>3TX7126-3HC13</b>	<b>9.00</b>			
		120 V AC	4PDT	5 A	<b>3TX7126-3HF13</b>	<b>9.00</b>			
		12 V DC	4PDT	5 A	<b>3TX7126-3HB03</b>	<b>9.00</b>			
		24 V DC	4PDT	5 A	<b>3TX7126-3HC03</b>	<b>9.00</b>			
		110 V DC	4PDT	5 A	<b>3TX7126-3HF03</b>	<b>9.00</b>			
		LED, No Flag	120 V AC	4PDT	3 A	<b>3TX7126-3PF10</b>	<b>9.00</b>		
		LED, No Flag	120 V AC	4PDT	5 A	<b>3TX7126-3PF13</b>	<b>9.00</b>		
			<b>Hermetically sealed</b>	24 V AC	4PDT	3 A	<b>3TX7127-3HC10</b>	<b>60.00</b>	
120 V AC	4PDT			3 A	<b>3TX7127-3HF10</b>	<b>60.00</b>			
12 V DC	4PDT			3 A	<b>3TX7127-3HB00</b>	<b>55.00</b>			
24 V DC	4PDT			3 A	<b>3TX7127-3HC00</b>	<b>55.00</b>			
110 V DC	4PDT			3 A	<b>3TX7127-3HF00</b>	<b>55.00</b>			
120 V AC	4PDT			5 A	<b>3TX7127-3HF13</b>	<b>60.00</b>			
12 V DC	4PDT			5 A	<b>3TX7127-3HB03</b>	<b>55.00</b>			
24 V DC	4PDT			5 A	<b>3TX7127-3HC03</b>	<b>55.00</b>			
	<b>Single modules</b> for self-assembly No LED, No Flag			12 V AC	DPDT	15 A	<b>3TX7123-5DB13</b>	<b>9.50</b>	
				24 V AC	DPDT	15 A	<b>3TX7123-5DC13</b>	<b>9.50</b>	
		120 V AC	DPDT	15 A	<b>3TX7123-5DF13</b>	<b>9.50</b>			
		12 V DC	DPDT	15 A	<b>3TX7123-5DB03</b>	<b>9.50</b>			
		24 V DC	DPDT	15 A	<b>3TX7123-5DC03</b>	<b>9.50</b>			
		110 V DC	DPDT	15 A	<b>3TX7123-5DF03</b>	<b>9.50</b>			
	<b>PC termination</b>	12 V DC	DPDT	15 A	<b>3TX7123-2DB03</b>	<b>9.50</b>			
		24 V DC	DPDT	15 A	<b>3TX7123-2DC03</b>	<b>9.50</b>			
		110 V DC	DPDT	15 A	<b>3TX7123-2DF03</b>	<b>9.50</b>			
	<b>Flange mount</b>	120 V AC	DPDT	15 A	<b>3TX7123-6DF13</b>	<b>9.50</b>			
		12 V DC	DPDT	15 A	<b>3TX7123-6DB03</b>	<b>9.50</b>			
		24 V DC	DPDT	15 A	<b>3TX7123-6DC03</b>	<b>9.50</b>			
	Socket for 3TX7126 and 3TX7127 Socket for 3TX7123	–			<b>3TX7144-1E5</b>	<b>12.50</b>			
					<b>3TX7144-1E6</b>	<b>9.00</b>			

#### Accessories

##### AC and DC operation

Version	Order no.	List Price \$	Weight approx. kg	Pack units
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#### For basic line, miniature relays

Hold/eject clip for 3TX7126 and 3TX7123	<b>3TX7144-1L4</b>	<b>0.75</b>		
Hold/eject clip for 3TX7127	<b>3TX7144-1L3</b>	<b>0.75</b>		

3TX71 plug-in relays


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Selection and ordering data


AC and DC operation

Version	Rated control supply voltage	Contact configuration	Contact rating	Order no.	List Price \$	Weight approx. kg	Pack units
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Premium line, 8 and 11 pin octal base relays

	<b>8 pin single modules</b> for self-assembly with mechanical indicator only	12 V AC	DPDT	16 A	<b>3TX7112-1LB13</b>	<b>17.00</b>	
		24 V AC	DPDT	16 A	<b>3TX7112-1LC13</b>	<b>17.00</b>	
		120 V AC	DPDT	16 A	<b>3TX7112-1LF13</b>	<b>17.00</b>	
		220/230 V AC	DPDT	16 A	<b>3TX7112-1LG13</b>	<b>17.00</b>	
		12 V DC	DPDT	16 A	<b>3TX7112-1LB03</b>	<b>17.00</b>	
		24 V DC	DPDT	16 A	<b>3TX7112-1LC03</b>	<b>17.00</b>	
		110 V DC	DPDT	16 A	<b>3TX7112-1LF03</b>	<b>17.00</b>	
	<b>11 pin single modules</b> for self-assembly with LED and mechanical indicator	12 V AC	3PDT	16 A	<b>3TX7112-1NB13</b>	<b>17.50</b>	
		24 V AC	3PDT	16 A	<b>3TX7112-1NC13</b>	<b>17.50</b>	
		120 V AC	3PDT	16 A	<b>3TX7112-1NF13</b>	<b>17.50</b>	
		220/230 V AC	3PDT	16 A	<b>3TX7112-1NG13</b>	<b>17.50</b>	
		12 V DC	3PDT	16 A	<b>3TX7112-1NB03</b>	<b>17.50</b>	
		24 V DC	3PDT	16 A	<b>3TX7112-1NC03</b>	<b>17.50</b>	
		110 V DC	3PDT	16 A	<b>3TX7112-1NF03</b>	<b>17.50</b>	

Basic line, 8 and 11 pin octal base relays

	<b>8 pin single modules</b> for self-assembly without LED	12 V AC	DPDT	16 A	<b>3TX7120-1DB13</b>	<b>14.00</b>	
		24 V AC	DPDT	16 A	<b>3TX7120-1DC13</b>	<b>14.00</b>	
		120 V AC	DPDT	16 A	<b>3TX7120-1DF13</b>	<b>14.00</b>	
		240 V AC	DPDT	16 A	<b>3TX7120-1DG13</b>	<b>14.00</b>	
		12 V DC	DPDT	16 A	<b>3TX7120-1DB03</b>	<b>14.00</b>	
		24 V DC	DPDT	16 A	<b>3TX7120-1DC03</b>	<b>14.00</b>	
		110 V DC	DPDT	16 A	<b>3TX7120-1DF03</b>	<b>14.00</b>	
	<b>11 pin single modules</b> for self-assembly without LED	12 V AC	3PDT	16 A	<b>3TX7120-1FB13</b>	<b>14.50</b>	
		24 V AC	3PDT	16 A	<b>3TX7120-1FC13</b>	<b>14.50</b>	
		120 V AC	3PDT	16 A	<b>3TX7120-1FF13</b>	<b>14.50</b>	
		240 V AC	3PDT	16 A	<b>3TX7120-1FG13</b>	<b>14.50</b>	
		12 V DC	3PDT	16 A	<b>3TX7120-1FB03</b>	<b>14.50</b>	
		24 V DC	3PDT	16 A	<b>3TX7120-1FC03</b>	<b>14.50</b>	
		110 V DC	3PDT	16 A	<b>3TX7120-1FF03</b>	<b>14.50</b>	

Accessories

	8 pin socket for 3TX7112 and 3TX7120 (DPDT)	<b>3TX7144-1E2</b>	<b>4.75</b>
	11 pin socket for 3TX7112 and 3TX7120 (3PDT)	<b>3TX7144-1E3</b>	<b>10.00</b>
	8 pin Touchsafe socket for 3TX7112 and 3TX7120	<b>3TX7144-4E2</b>	<b>7.00</b>
	11 pin Touchsafe socket for 3TX7112 and 3TX7120	<b>3TX7144-4E3</b>	<b>7.00</b>
	<b>Accessories for 3TX7144-4E2 and 4E3</b>		
	MOV suppressor 24 VAC/VDC	<b>3TX7144-H1</b>	<b>3.00</b>
	MOV suppressor 120 VAC/VDC	<b>3TX7144-H2</b>	<b>3.00</b>
	MOV suppressor 240 VAC/VDC	<b>3TX7144-H3</b>	<b>3.00</b>
	RC suppressor 6-24 VAC/VDC	<b>3TX7144-H4</b>	<b>2.00</b>
	RC suppressor 110-240 VAC/VDC	<b>3TX7144-H5</b>	<b>2.00</b>
	Protection diode 6-250 VDC	<b>3TX7144-H6</b>	<b>2.00</b>
	LED, green 24 VAC/VDC	<b>3TX7144-H7</b>	<b>1.00</b>
	LED, green 120/240 VAC/VDC	<b>3TX7144-H8</b>	<b>1.00</b>
	Jumper bar	<b>3TX7144-H15</b>	<b>1.00</b>


### 3TX71 plug-in relays

#### Selection and ordering data


##### AC and DC operation

Version	Rated control supply voltage	Contact configuration	Contact rating	Order no.	List Price \$	Weight approx. kg	Pack units
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#### Original line, 8 and 11 pin On delay/Off delay octal timing relays

	<b>8 pin single modules</b> on delay octal base	24 V DC	DPDT	10 A	<b>0ND-0110-24D</b>	<b>95.00</b>	
		24 V AC	DPDT	10 A	<b>0ND-0110-24A</b>	<b>95.00</b>	
		24 V AC	DPDT	10 A	<b>0ND-1180-24A</b>	<b>95.00</b>	
		120 V AC	DPDT	10 A	<b>0ND-0110-120A</b>	<b>95.00</b>	
		120 V AC	DPDT	10 A	<b>0ND-1180-120A</b>	<b>95.00</b>	
		<hr/>					
	<b>11 pin single modules</b> off delay octal base	24 V DC	DPDT	10 A	<b>0FD-0110-24D</b>	<b>103.00</b>	
		24 V AC	DPDT	10 A	<b>0FD-0110-24A</b>	<b>103.00</b>	
		120 V AC	DPDT	10 A	<b>0FD-0110-120A</b>	<b>103.00</b>	
		120 V AC	DPDT	10 A	<b>0FD-1180-120A</b>	<b>103.00</b>	
		12 V DC	DPDT	10 A			
		24 V DC	DPDT	10 A			
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#### Enhanced line, 8 and 11 pin multifunctional octal base relays

	<b>8 pin single modules</b> on delay/int octal base sel. time base	12 V AC	DPDT	12 A	<b>0ND-DFOB-12</b>	<b>70.00</b>	
		24 V AC	DPDT	12 A	<b>0ND-DFOB-24</b>	<b>70.00</b>	
		120 V AC	DPDT	12 A	<b>0ND-DFOB-120</b>	<b>70.00</b>	
		240 V AC	DPDT	12 A	<b>0ND-DFOB-240</b>	<b>70.00</b>	
		12 V DC	DPDT	12 A			
		24 V DC	DPDT	12 A			
	<hr/>						
	<b>11 pin single modules</b> off delay/os octal base sel. time base	12 V AC	DPDT	12 A	<b>0FD-DFOB-12</b>	<b>70.00</b>	
		24 V AC	DPDT	12 A	<b>0FD-DFOB-24</b>	<b>70.00</b>	
		120 V AC	DPDT	12 A	<b>0FD-DFOB-120</b>	<b>70.00</b>	
		240 V AC	DPDT	12 A	<b>0FD-DFOB-240</b>	<b>70.00</b>	
		12 V DC	DPDT	12 A			
24 V DC		DPDT	12 A				
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#### Enhanced line, multifunctional square base time delay relays

	<b>8 pin</b> on delay square base		DPDT		<b>0ND-DFSB-12</b>	<b>70.00</b>		
			DPDT		<b>0ND-DFSB-24</b>	<b>70.00</b>		
			DPDP		<b>0ND-DFSB-120</b>	<b>70.00</b>		
			DPDP		<b>0ND-DFSB-240</b>	<b>70.00</b>		
		<hr/>						
		<b>11 pin</b> off delay square base		DPDT		<b>0FD-DFSB-12</b>	<b>70.00</b>	
			DPDT		<b>0FD-DFSB-24</b>	<b>70.00</b>		
			DPDP		<b>0FD-DFSB-120</b>	<b>70.00</b>		
			DPDP		<b>0FD-DFSB-240</b>	<b>70.00</b>		
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#### Accessories

	8 pin socket for OND			<b>3TX7144-1E2</b>	<b>4.75</b>	
	11 pin socket for OFD			<b>3TX7144-1E3</b>	<b>10.00</b>	
	8 pin Touchsafe socket for OND			<b>3TX7144-4E2</b>	<b>7.00</b>	
	11 pin Touchsafe socket for OFD			<b>3TX7144-4E3</b>	<b>7.00</b>	
<hr/>						
<b>Accessories for 3TX7144-4E2 and 4E3</b>						
	MOV suppressor 24 VAC/VDC			<b>3TX7144-H1</b>	<b>3.00</b>	
	MOV suppressor 120 VAC/VDC			<b>3TX7144-H2</b>	<b>3.00</b>	
	MOV suppressor 240 VAC/VDC			<b>3TX7144-H3</b>	<b>3.00</b>	
	RC suppressor 6-24 VAC/VDC			<b>3TX7144-H4</b>	<b>2.00</b>	
	RC suppressor 110-240 VAC/VDC			<b>3TX7144-H5</b>	<b>2.00</b>	
	Protection diode 6-250 VDC			<b>3TX7144-H6</b>	<b>2.00</b>	
	LED, green 24 VAC/VDC			<b>3TX7144-H7</b>	<b>1.00</b>	
	LED, green 120/240 VAC/VDC			<b>3TX7144-H8</b>	<b>1.00</b>	
	Jumper bar			<b>3TX7144-H15</b>	<b>1.00</b>	

3TX71 plug-in relays

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Selection and ordering data

AC and DC operation

Version	Rated control supply voltage	Contact configuration	Contact rating	Order no.	List Price \$	Weight approx. kg	Pack units
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Premium line, square base relays

3TX7115-5LF13



**Single modules**  
for self-assembly with LED, push to test with lock-down door, and mechanical indicator

24 V AC	DPDT	12 A	<b>3TX7115-5LC13</b>	17.00	
120 V AC	DPDT	12 A	<b>3TX7115-5LF13</b>	17.00	
240 V AC	DPDT	12 A	<b>3TX7115-5LH13</b>	17.00	
12 V DC	DPDT	12 A	<b>3TX7115-5LB03</b>	17.00	
24 V DC	DPDT	12 A	<b>3TX7115-5LC03</b>	17.00	
110 V DC	DPDT	12 A	<b>3TX7115-5LF03</b>	17.00	
24 V AC	3PDT	12 A	<b>3TX7115-5NC13</b>	17.50	
120 V AC	3PDT	12 A	<b>3TX7115-5NF13</b>	17.50	
220/230 V AC	3PDT	12 A	<b>3TX7115-5NH13</b>	17.50	
12 V DC	3PDT	12 A	<b>3TX7115-5NB03</b>	17.50	
24 V DC	3PDT	12 A	<b>3TX7115-5NC03</b>	17.50	
110 V DC	3PDT	12 A	<b>3TX7115-5NF03</b>	17.50	

Basic line, square base relays

3TX7121-5LC13



**Single modules**  
for self-assembly without LED

12 V AC	DPDT	15 A	<b>3TX7121-5DB13</b>	13.50	
24 V AC	DPDT	15 A	<b>3TX7121-5DC13</b>	13.50	
120 V AC	DPDT	15 A	<b>3TX7121-5DF13</b>	13.50	
240 V AC	DPDT	15 A	<b>3TX7121-5DH13</b>	13.50	
12 V DC	DPDT	15 A	<b>3TX7121-5DB03</b>	13.50	
24 V DC	DPDT	15 A	<b>3TX7121-5DC03</b>	13.50	
110 V DC	DPDT	15 A	<b>3TX7121-5DF03</b>	13.50	
12 V AC	3PDT	15 A	<b>3TX7121-5FB13</b>	14.50	
24 V AC	3PDT	15 A	<b>3TX7121-5FC13</b>	14.50	
120 V AC	3PDT	15 A	<b>3TX7121-5FF13</b>	14.50	
240 V AC	3PDT	15 A	<b>3TX7121-5FH13</b>	14.50	
12 V DC	3PDT	15 A	<b>3TX7121-5FB03</b>	14.50	
24 V DC	3PDT	15 A	<b>3TX7121-5FC03</b>	14.50	
110 V DC	3PDT	15 A	<b>3TX7121-5FF03</b>	14.50	

3TX7144-1E4



**Flange mount modules**  
(require 0.187 quick connect)

24 V AC	DPDT	20 A <sup>1)</sup>	<b>3TX7122-5DC13</b>	15.50	
120 V AC	DPDT	20 A <sup>1)</sup>	<b>3TX7122-5DF13</b>	15.50	
240 V AC	DPDT	20 A <sup>1)</sup>	<b>3TX7122-5DH13</b>	15.50	
12 V DC	DPDT	20 A <sup>1)</sup>	<b>3TX7122-5DB03</b>	15.50	
24 V DC	DPDT	20 A <sup>1)</sup>	<b>3TX7122-5DC03</b>	15.50	
110 V DC	DPDT	20 A <sup>1)</sup>	<b>3TX7122-5DF03</b>	15.50	
24 V AC	DPDT	15 A	<b>3TX7121-6DC13</b>	14.00	
120 V AC	DPDT	15 A	<b>3TX7121-6DF13</b>	14.00	
240 V AC	DPDT	15 A	<b>3TX7121-6DH13</b>	14.00	
12 V DC	DPDT	15 A	<b>3TX7121-6DB03</b>	14.00	
24 V DC	DPDT	15 A	<b>3TX7121-6DC03</b>	14.00	
110 V DC	DPDT	15 A	<b>3TX7121-6DF03</b>	14.00	
24 V AC	3PDT	15 A	<b>3TX7121-6FC13</b>	14.50	
120 V AC	3PDT	15 A	<b>3TX7121-6FF13</b>	14.50	
240 V AC	3PDT	15 A	<b>3TX7121-6FH13</b>	14.50	
12 V DC	3PDT	15 A	<b>3TX7121-6FB03</b>	14.50	
24 V DC	3PDT	15 A	<b>3TX7121-6FC03</b>	14.50	
110 V DC	3PDT	15 A	<b>3TX7121-6FF03</b>	14.50	

Socket for 3TX7115, 3TX7121 and 3TX7122

<b>3TX7144-1E4</b>	11.00
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1) Applications above 15 amps must use quick connect terminals and not 3TX7144-1E4 sockets.

Accessories

Version	Order no.	List Price \$
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For premium line, miniature relays

Hold/eject clip for 3TX7115	<b>3TX7144-1L2</b>	0.75
11 Pin chassis mount socket	<b>3TX7144-3D0</b>	5.40
Hold/eject clip for 3TX7121 and 3TX7122	<b>3TX7144-1L5</b>	0.75



# Function Relays, Interfaces and Converters

## Coupling Relays and Interfaces

SIMIREL

### 3TX71 plug-in relays

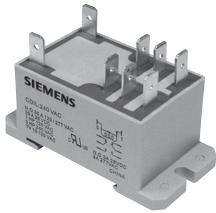
#### Selection and ordering data

##### AC and DC operation

Version	Rated control supply voltage	Contact configuration	Contact rating	Order no.	List Price \$	Weight approx. kg	Pack units
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#### DIN Mount Power Relay relays

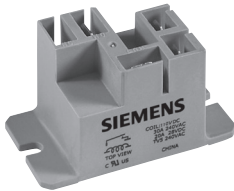
3TX7131-4CC13



24 V AC	DPST-NO	30 A	<b>3TX7131-4CC13</b>	<b>11.90</b>		
120 V AC	DPST-NO	30 A	<b>3TX7131-4CF13</b>	<b>11.90</b>		
240 V AC	DPST-NO	30 A	<b>3TX7131-4CH13</b>	<b>13.50</b>		

12 V DC	DPDT	30 A	<b>3TX7131-4DB03</b>	<b>14.00</b>		
24 V DC	DPDT	30 A	<b>3TX7131-4DC03</b>	<b>14.00</b>		
24 V AC	DPDT	30 A	<b>3TX7131-4DC13</b>	<b>14.00</b>		
120 V AC	DPDT	30 A	<b>3TX7131-4DF13</b>	<b>14.00</b>		
240 V AC	DPDT	30 A	<b>3TX7131-4DH13</b>	<b>14.00</b>		

3TX7132-6BA03



5 V DC	SPDT	30 A	<b>3TX7132-6BA03</b>	<b>6.00</b>		
12 V DC	SPDT	30 A	<b>3TX7132-6BB03</b>	<b>6.00</b>		
24 V DC	SPDT	30 A	<b>3TX7132-6BC03</b>	<b>6.00</b>		
120 V AC	SPDT	30 A	<b>3TX7132-6BF13</b>	<b>6.00</b>		

3TX71 plug-in relays

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Selection and ordering data

AC and DC operation

Version	Rated control supply voltage	Contact configuration	Contact rating	Order no.	List Price \$	Weight approx. kg	Pack units
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Basic line, square base relays

 <p>3TX7113-5DF13</p>	<p><b>Single modules</b> for self-assembly with mechanical indicator, without LED</p>	24 V AC	DPDT	16 A	<b>3TX7113-5DC13</b>	<b>16.00</b>		
		120 V AC	DPDT	16 A	<b>3TX7113-5DF13</b>	<b>16.00</b>		
		240 V AC	DPDT	16 A	<b>3TX7113-5DH13</b>	<b>16.00</b>		
		12 V DC	DPDT	16 A	<b>3TX7113-5DB03</b>	<b>16.00</b>		
		24 V DC	DPDT	16 A	<b>3TX7113-5DC03</b>	<b>16.00</b>		
		24 V AC	3PDT	16 A	<b>3TX7113-5FC13</b>	<b>16.00</b>		
		120 V AC	3PDT	16 A	<b>3TX7113-5FF13</b>	<b>16.00</b>		
		240 V AC	3PDT	16 A	<b>3TX7113-5FG13</b>	<b>16.00</b>		
		12 V DC	3PDT	16 A	<b>3TX7113-5FB03</b>	<b>16.00</b>		
		24 V DC	3PDT	16 A	<b>3TX7113-5FC03</b>	<b>16.00</b>		
 <p>3TX7136-5LF13</p>	<p><b>Flange mount modules</b> (require 0.187 quick connect)</p>	24 V AC	DPDT	16 A	<b>3TX7113-6DC13</b>	<b>16.00</b>		
		120 V AC	DPDT	16 A	<b>3TX7113-6DF13</b>	<b>7.50</b>		
		240 V AC	DPDT	16 A	<b>3TX7113-6DH13</b>	<b>16.00</b>		
		12 V DC	DPDT	16 A	<b>3TX7113-6DB03</b>	<b>16.00</b>		
		24 V DC	DPDT	16 A	<b>3TX7113-6DC03</b>	<b>16.00</b>		
		24 V AC	3PDT	16 A	<b>3TX7113-6FC13</b>	<b>16.00</b>		
		120 V AC	3PDT	16 A	<b>3TX7113-6FF13</b>	<b>16.00</b>		
		240 V AC	3PDT	16 A	<b>3TX7113-6FG13</b>	<b>16.00</b>		
		24 V DC	3PDT	16 A	<b>3TX7113-6FC03</b>	<b>16.00</b>		
		 <p>3TX7144-1E4</p>	<p><b>Flange mount modules</b> (require 0.250 quick connect)</p>	24 V AC	DPDT	25 A	<b>3TX7113-4DC13</b>	<b>16.50</b>
120 V AC	DPDT			25 A	<b>3TX7113-4DF13</b>	<b>16.50</b>		
240 V AC	DPDT			25 A	<b>3TX7113-4DH13</b>	<b>16.50</b>		
12 V DC	DPDT			25 A	<b>3TX7113-4DB03</b>	<b>16.50</b>		
24 V DC	DPDT			25 A	<b>3TX7113-4DC03</b>	<b>16.50</b>		
<p><b>Latching Relay</b> (for self-assembly without LED)</p>	24 V AC			DPDT	10 A	<b>3TX7125-5DC13</b>	<b>16.00</b>	
	120 V AC			DPDT	10 A	<b>3TX7125-5DF13</b>	<b>16.00</b>	
	12 V DC			DPDT	10 A	<b>3TX7125-5DB03</b>	<b>16.00</b>	
	24 V DC			DPDT	10 A	<b>3TX7125-5DC03</b>	<b>16.00</b>	
<p><b>Alternating Relay</b> (for self-assembly with status LED)</p>	24 V AC			DPDT	12 A	<b>3TX7136-5LC13</b>	<b>95.00</b>	
	120 V AC	DPDT	12 A	<b>3TX7136-5LF13</b>	<b>95.00</b>			
	24 V DC	DPDT	12 A	<b>3TX7136-5LC03</b>	<b>95.00</b>			
Socket for 3TX7113, 3TX7125 and 3TX7136				<b>3TX7144-1E4</b>	<b>11.00</b>			

Accessories

AC and DC operation

Version	Order no.	List Price \$	Weight approx. kg	Pack units
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For Basic line square base relays

11 Pin chassis mount socket	<b>3TX7144-3D0</b>	<b>5.40</b>		
Hold/eject clip for 3TX7125	<b>3TX7144-1L5</b>	<b>0.75</b>		



# Function Relays, Interfaces and Converters

## Coupling Relays and Interfaces

SIMIREL

### 3TX71 plug-in relays

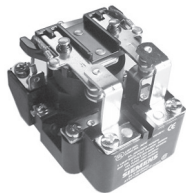
#### Selection and ordering data

##### AC and DC operation

Version	Rated control supply voltage	Contact configuration	Contact rating	Order no.	List Price \$	Weight approx. kg	Pack units
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Heavy duty power relays							
	24 V AC	SPST - NO	30 A	<b>3TX7130-0AC13</b>	<b>22.00</b>		
	120 V AC	SPST - NO	30 A	<b>3TX7130-0AF13</b>	<b>22.00</b>		
	240 V AC	SPST - NO	30 A	<b>3TX7130-0AH13</b>	<b>22.00</b>		
	120 V AC	SPST - NC	30 A	<b>3TX7130-0QF13</b>	<b>22.00</b>		
	24 V DC	SPST - NC	30 A	<b>3TX7130-0AC03</b>	<b>22.00</b>		
	24 V AC	SPDT	30 A	<b>3TX7130-0BC13</b>	<b>24.00</b>		
	120 V AC	SPDT	30 A	<b>3TX7130-0BF13</b>	<b>24.00</b>		
	240 V AC	SPDT	30 A	<b>3TX7130-0BH13</b>	<b>24.00</b>		
	277 V DC	SPDT	30 A	<b>3TX7130-0BS13</b>	<b>24.00</b>		
	24 V AC	DPDT	30 A	<b>3TX7130-0DC13</b>	<b>26.00</b>		
	120 V AC	DPDT	30 A	<b>3TX7130-0DF13</b>	<b>26.00</b>		
	240 V AC	DPDT	30 A	<b>3TX7130-0DH13</b>	<b>26.00</b>		
	277 V DC	DPDT	30 A	<b>3TX7130-0DS13</b>	<b>26.00</b>		
	12 V DC	DPDT	30 A	<b>3TX7130-0DB03</b>	<b>26.00</b>		
	24 V DC	DPDT	30 A	<b>3TX7130-0DC03</b>	<b>26.00</b>		
	48 V DC	DPDT	30 A	<b>3TX7130-0DD03</b>	<b>26.00</b>		
	24 V AC	DPST - NO	30 A	<b>3TX7130-0CC13</b>	<b>24.00</b>		
	120 V AC	DPST - NO	30 A	<b>3TX7130-0CF13</b>	<b>24.00</b>		
	240 V AC	DPST - NO	30 A	<b>3TX7130-0CH13</b>	<b>24.00</b>		
	277 V DC	DPST - NO	30 A	<b>3TX7130-0CS13</b>	<b>24.00</b>		
	12 V DC	DPST - NO	30 A	<b>3TX7130-0CB03</b>	<b>24.00</b>		
	24 V DC	DPST - NO	30 A	<b>3TX7130-0CC03</b>	<b>24.00</b>		
<b>Relays with magnetic blowout</b>	120 V AC	DPDT	30 A	<b>3TX7130-0RF13</b>	<b>31.00</b>		
	12 V DC	DPDT	30 A	<b>3TX7130-0RB03</b>	<b>31.00</b>		
	24 V DC	DPDT	30 A	<b>3TX7130-0RC03</b>	<b>31.00</b>		
	48 V DC	DPDT	30 A	<b>3TX7130-0RD03</b>	<b>31.00</b>		
	110 V DC	DPDT	30 A	<b>3TX7130-0RF03</b>	<b>31.00</b>		

3TX7130-0DF13



#### Accessories

##### AC and DC operation

Version	Order no.	List Price \$	Weight approx. kg	Pack units
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For heavy duty power relays				
Heavy duty power relay dust cover	<b>3TX7144-1M0</b>	<b>19.00</b>		

3TX71 plug-in relays



Technical data

Relay type	3TX7110	3TX7111/ 3TX7114	3TX7116/ 3TX7117	3TX7126	3TX7127	3TX7123	3TX7109
<b>AC and DC operation, coil data</b>							
<b>pull-in voltage @ 25° C</b> AC DC	85% 80%			80% 75%		80% 75%	
<b>dropout voltage</b> AC DC	10% min. 10% min.			30% min. 10% min.		30% min. 10% min.	
<b>max. voltage</b>	110% of nominal voltage			110% of nominal voltage		110% of nominal voltage	
<b>coil resistance</b>	+/-15% AC & DC			+/-15% AC & DC		+/-15% AC & DC	
<b>coil insulation</b>	class B coil insulation system			class B coil insulation system		class B coil insulation system	
<b>power consumption</b> AC DC	0.9 VA (60Hz) 0.7 W	1.2 VA (60Hz) 0.9 W	1.5 VA (60Hz) 1.7 W	1.2 VA (60Hz) 0.9 W		0.9 VA (60Hz) 0.7 W	
<b>duty</b>	continuous			continuous		continuous	

Contact data

<b>contact material</b>	silver alloy			silver alloy	3A-silver 5A-silver alloy	silver alloy 5A-silver alloy	silver alloy
<b>contact resistance</b>	50 milliohms max. @ 10A, 120V AC or 24V DC	100 milliohms max. @ 10A, 6V AC 1 amp		100 milliohms max. @ 5A, 6V AC 1 amp	(3A)100 milliohms max. @ 120 V AC (5A)500 milliohms max. @ 120 V AC	100 milliohms max. @ 10A, 6V AC 1 amp	50 milliohms max. @ 10A, 120V AC or 24V DC
<b>contact rating</b> 110-120V AC 28V DC 220-277V AC	15 A 15 A 10 A	15A 12A 12A		5A 5A 5A	3A / 5A 3A / 5A N/A / N/A	15A 15A 15A	15 A 15 A 10 A
<b>single phase horse power rating</b> 110-120V AC 220-250V AC	1/2 HP 1 HP	1/3 HP 1/2 HP		1/6 HP 1/16 HP	- -	1/3 HP 1/2 HP	1/2 HP 1 HP
<b>minimum recommended load</b>	100mA @ 5VDC or 0.5 W	100mA @ 5VDC or 0.5 W		100mA @ 5VDC or 0.5 W	100mA @ 5VDC or 0.5 W	100mA @ 5VDC or 0.5 W	100mA @ 5VDC or 0.5 W

Miscellaneous

<b>timing</b> operate time release time	25 ms 25 ms			25 ms 25 ms	13 ms 6 ms	25 ms 25 ms	
<b>dielectric strength</b> coil to contacts (1 min.) across open contacts (1 min.) contact to frame (1 min.) insulation resistance @ 500V DC	1500V rms 1000V rms 1500V rms 100 Megohms			1500V rms 1000V rms 1500V rms 100 Megohms	1240V rms 500V rms 1240V rms 100 Megohms	1500V rms 1000V rms 1500V rms 100 Megohms	
<b>ambient temperature</b>	-40° C + 70° C			-40° C + 70° C	-45° C + 70° C	-40° C + 70° C	
<b>vibration resistance</b>	6G's, 10 to 55 Hz, 1mm (double amplitude)			6G's, 10 to 55 Hz, 1mm (double amplitude)		6G's, 10 to 55 Hz, 1mm (double amplitude)	
<b>shock resistance</b> functional	10 G's			10 G's	10 G's	10 G's	
<b>life expectancy</b> mechanical electrical	10 million 150,000 min.	10 million 200,000 min.		50 million 200,000 min.	10 million 100,000 min.	50 million 200,000 min.	10 million 150,000 min.

### 3TX71 plug-in relays

#### Technical data

Relay type	3TX7112	3TX7120	3TX7115	3TX7121	3TX7122
<b>AC and DC operation, coil data</b>					
<b>pull-in voltage @ 25° C</b>					
AC	85 %				
DC	80 %				
<b>dropout voltage</b>					
AC	10 %				
DC	10 %				
<b>max. voltage</b>	110 %				
<b>coil resistance</b>	±10 % AC & DC		±10 % DC		
<b>coil insulation</b>	Class B				
<b>power consumption</b>					
AC	2 VA (60 Hz)		2 - 2.75 VA (60 Hz)		2 - 2.75 VA (60 Hz)
DC	1.2 W		1.2 W		1.2 W
<b>duty</b>	continuous				

#### Contact data

<b>contact material</b>	silver alloy			silver alloy		
<b>contact resistance</b>	50 milliohms max 10 A 120 AC or 24 DC	50 milliohms max at rated current 120 AC or 24 DC		50 milliohms max 10 A 120 V AC or 24 V DC	50 milliohms max at rated current	
<b>contact rating</b>		<b>2 pole</b>	<b>3 pole</b>	<b>2 pole</b>	<b>3 pole</b>	<b>2 p 3 p</b>
110-120V AC	16 A	12 A	10 A	16 A	16 A	25 A 20 A
28V DC	16 A	10 A	10 A	16 A	16 A	13 A 13 A
220-277V AC	16 A	8 A	6 A	16 A	16 A	20 A 10 A
<b>single phase horse power rating</b>						
110-120V AC	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1 HP
220-250V AC	1/2 HP	1/2 HP	1/2 HP	1/2 HP	1/2 HP	1 1/2 HP
<b>minimum recommended load</b>	100mA @ 5VDC or 0.5 W		100mA @ 5VDC or 0.5 W		100mA @ 5VDC or 0.5 W	

#### Miscellaneous

<b>timing</b>						
operate time	20 ms		25 ms		20 ms	
release time	15 ms		20 ms		20 ms	
<b>dielectric strength</b>						
coil to contacts (1 min.)	2500 V rms		1500 V rms		2500 V rms	
across open contacts (1 min.)	1500 V rms		1000 V rms		500 V rms	
contact to frame (1 min.)	2500 V rms		1500 V rms		2000 V rms	
insulation resistance @ 500V DC	1000 Megohms		1000 Megohms		1000 Megohms	
<b>ambient temperature</b>	-40° C + 65° C		-10° C + 60° C		-40° C + 50° C AC -40° C + 65° C DC	
<b>vibration resistance</b>	6G's, 10 to 55 Hz, 1mm (double amplitude)			6G's, 10 to 55 Hz, 1mm (double amplitude)		
<b>shock resistance</b>						
functional	10 G's		10 G's		10 G's	
<b>life expectancy</b>						
mechanical	5 million		5 million		5 million	
electrical	200,000		100,000		100,000	

Technical data				
Relay type	3TX7113	3TX7125	3TX7136	3TX7130
<b>AC and DC operation, coil data</b>				
<b>pull-in voltage @ 25° C</b>				
AC	85 %	85 %	85 %	85 %
DC	80 %	75 %	75 %	80 %
<b>dropout voltage</b>				
AC	10 %		N/A	10 %
DC				
<b>max. voltage</b>	110 %		110 %	
<b>coil resistance</b>	±10 % AC & DC		±10 % AC & DC	
<b>coil insulation</b>	class B		class B	
<b>power consumption</b>				
AC	2 V A to 3.5 V A	1.64 V A	1.64 V A	10 V A
DC	1.44 W	1.8 W	1.8 W	2 W
<b>duty</b>	continuous		intermittent	
<b>Contact data</b>				
<b>contact material</b>	silver alloy		silver alloy	
<b>contact resistance</b>	50 milliohms max at rated current		50 milliohms max at rated current	
<b>contact rating</b>	<b>DPDT</b>	<b>3PDT</b>		
110-120V AC			10 A	
28V DC	13 - 20 A	13 - 16 A	10 A	30 A
220-277V AC	20 - 25 A	16 - 20 A	10 A	30 A
<b>single phase horse power rating</b>				
110-120V AC	3/4 to 1 HP	1/2 to 3/4 HP	1/3 HP	N/A
220-250V AC	1 to 1 1/2 HP	1 to 1 1/2 HP	1/2 HP	N/A
				1 1/2 to 2 HP
				1 1/2 to 2 HP
<b>minimum recommended load</b>	100mA @ 5VDC or 0.5 W		100mA @ 5VDC or 0.5 W	
<b>Miscellaneous</b>				
<b>timing</b>				
operate time	20 ms	30 ms	20 ms	40 ms
release time	20 ms	30 ms		30 ms
<b>dielectric strength</b>				
coil to contacts (1 min.)	2000 V rms	1500 V rms	1500 V rms	2200 V rms
across open contacts (1 min.)	500 V rms	500 V rms	500 V rms	1500 V rms
contact to frame (1 min.)	2000 V rms	1500 V rms	1500 V rms	2200 V rms
insulation resistance @ 500V DC	1000 Megohms	1000 Megohms	1000 Megohms	1000 Megohms
<b>ambient temperature</b>	-30° C + 50° C AC -30° C + 65° C DC	-45° C + 70° C AC		-30° C + 50° C AC -30° C + 60° C DC
<b>vibration resistance</b>	6G's, 10 to 55 Hz, 1mm (double amplitude)		6G's, 10 to 55 Hz, 1mm (double amplitude)	
<b>shock resistance</b>	functional		functional	
	10 G's		10 G's	
<b>life expectancy</b>				
mechanical	5 million	10 million	10 million	1 million
electrical	100,000	100,000	100,000	100,000

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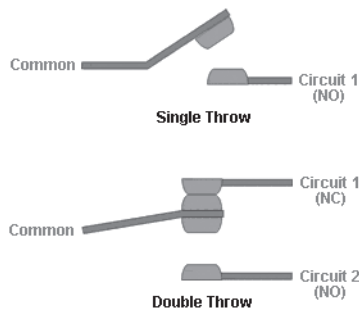
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### 3TX71 plug-in relays

#### Overview

##### Contact arrangement - throws

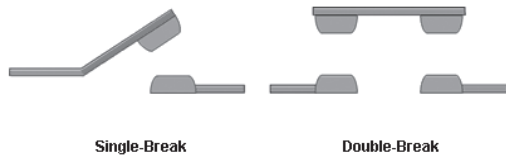


Throw is the number of different closed contact positions per pole. In other words a throw describes the total number of different circuits each pole controls.

The following abbreviations are used to indicate contact configurations:

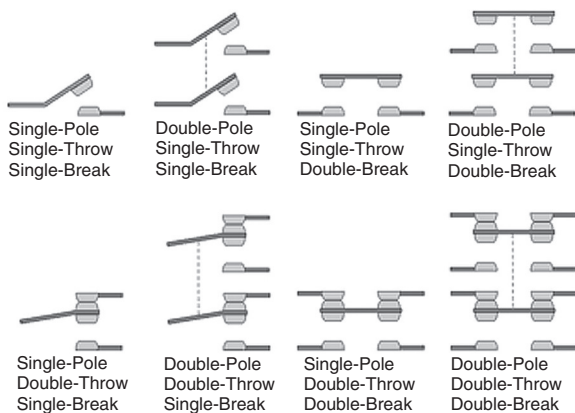
- SPST** Single-pole, single-throw
- SPDT** Single-pole, double-throw
- DPST** Double-pole, single-throw
- DPDT** Double-pole, double-throw

##### Contact arrangement - break



Break is the number of separate contacts the switch uses to open or close an individual circuits. If the relay breaks the circuit in one place, then it is a single break relay. If the relay breaks the circuit in two places, then it is a double break relay.

##### Contact arrangements overview



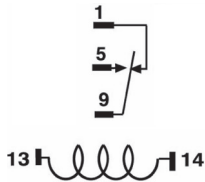
This illustration shows various contact arrangement types.

3TX71 plug-in relays

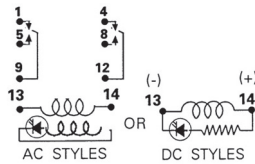
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Circuit diagrams

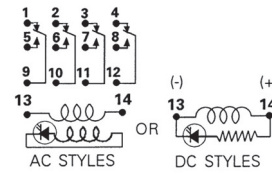
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SPDT



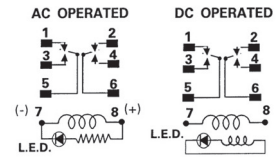
3TX7111  
DPDT



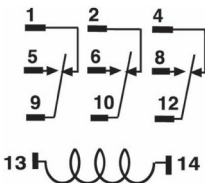
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3PDT



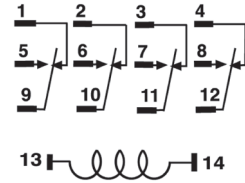
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DPDT



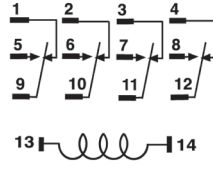
3TX7116  
3PDT



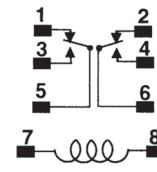
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4PDT



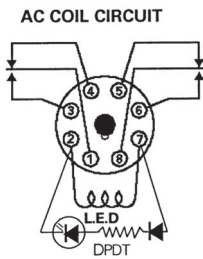
3TX7126/3TX7127  
4PDT



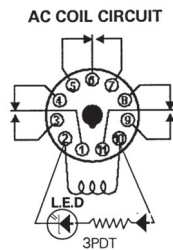
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DPDT



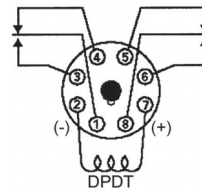
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DPDT



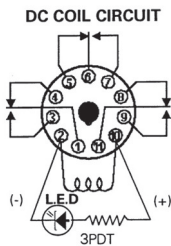
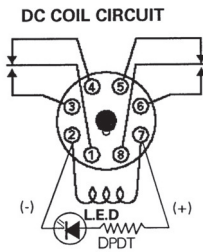
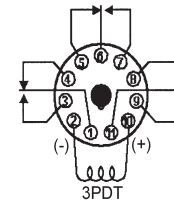
3TX7112  
3PDT



3TX7120  
DPDT



3TX7120  
3PDT



Bracketed values: Socket designations.  
Without brackets: Contact/coil designations.



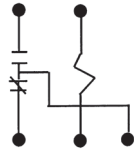
### 3TX71 plug-in relays

**Circuit diagrams**

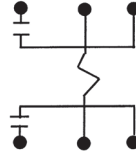
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SPST-NO



**3TX7130**  
SPDT



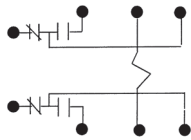
**3TX7130**  
DPST-NO



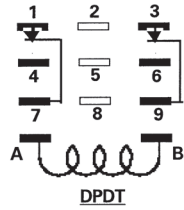
**3TX7130**  
SPST-NC-DB



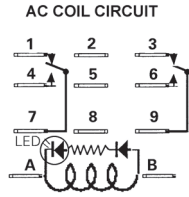
**3TX7130**  
DPDT



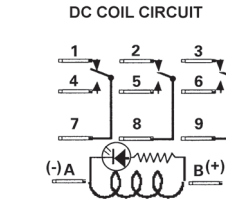
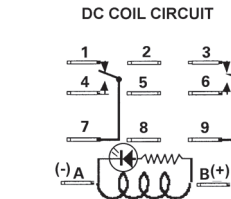
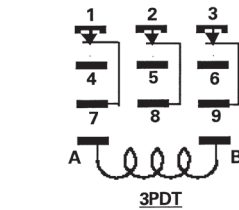
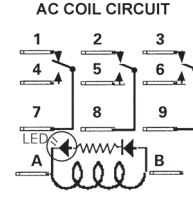
**3TX7121**  
DPDT, 3PDT



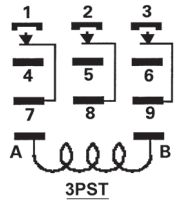
**3TX7115**  
DPDT



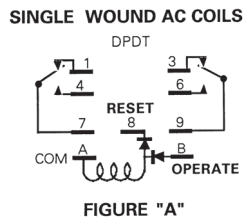
**3TX7115**  
3PDT



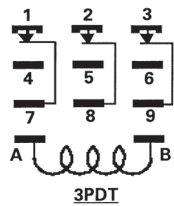
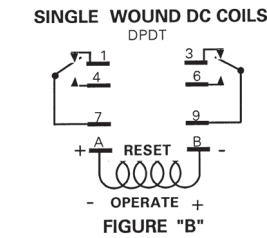
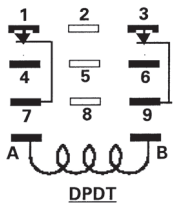
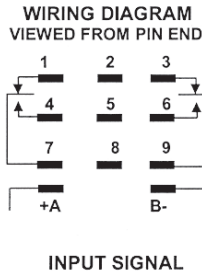
**3TX7113**  
DPDT, 3PST, 3PDT



**3TX7125**  
DPDT



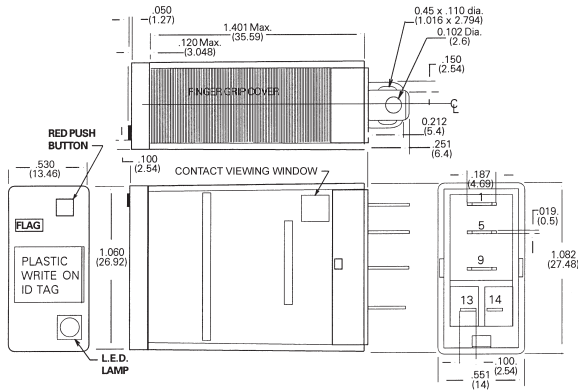
**3TX7136**  
DPDT



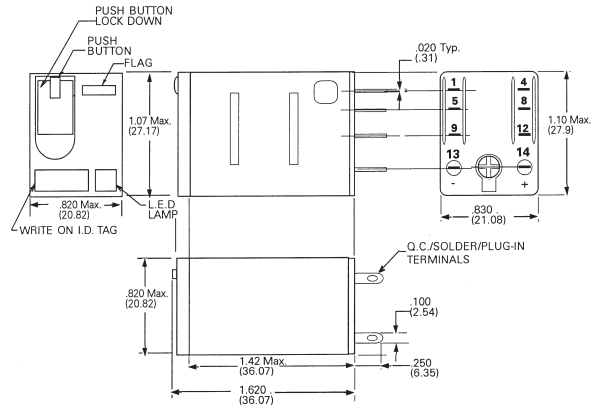
3TX71 plug-in relays

Dimension drawings

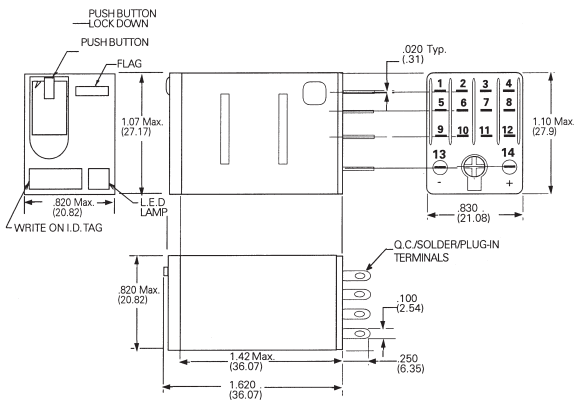
3TX7110



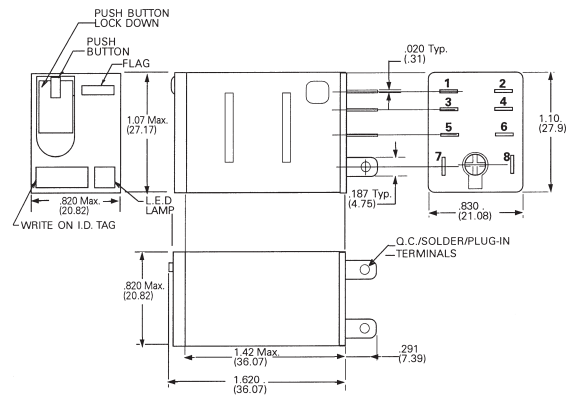
3TX7111 DPDT



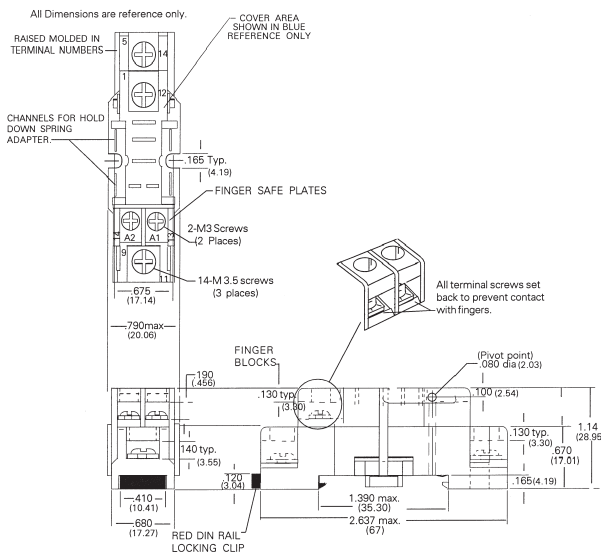
3TX7111 4PDT



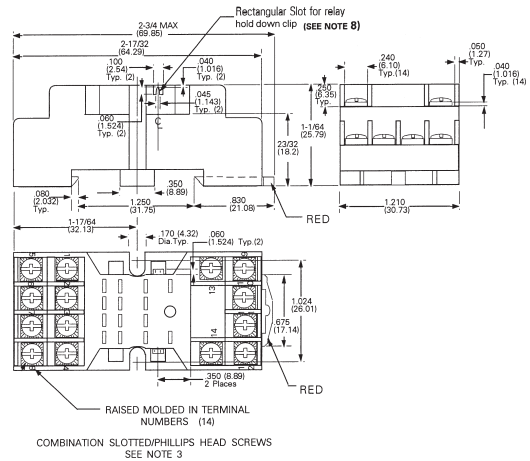
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3TX7144-1E7



3TX7144-1E5

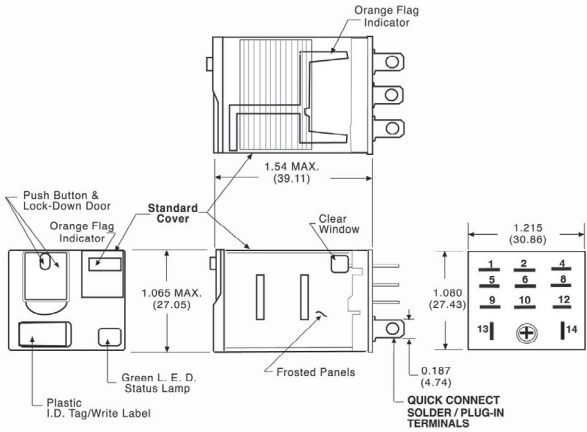


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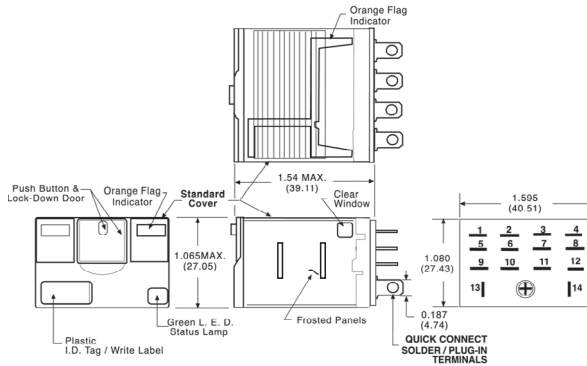
### 3TX71 plug-in relays

#### Dimension drawings

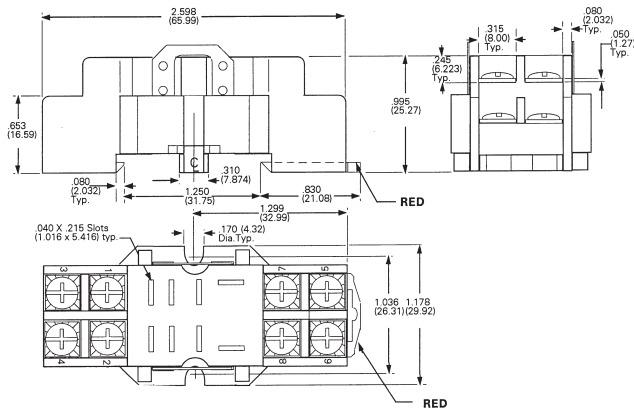
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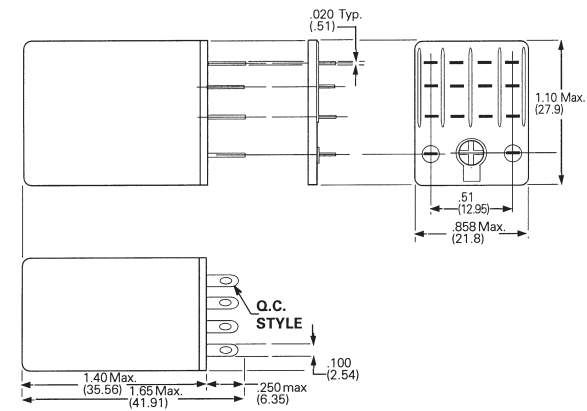
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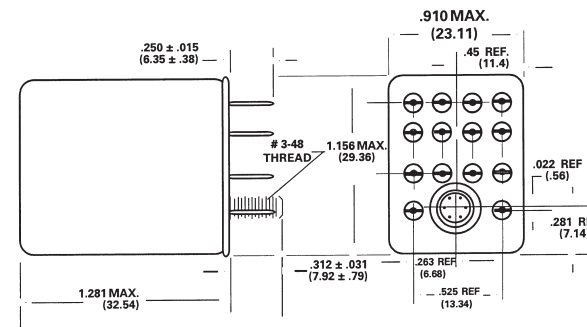
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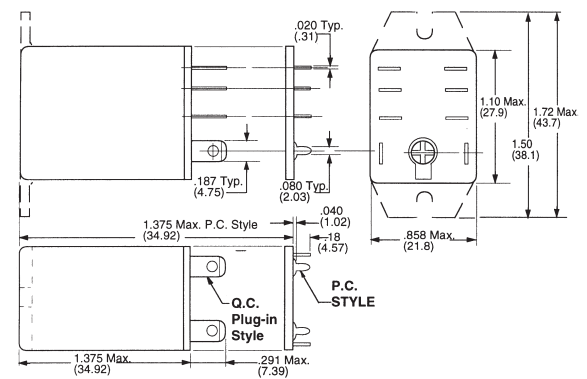
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3TX7127



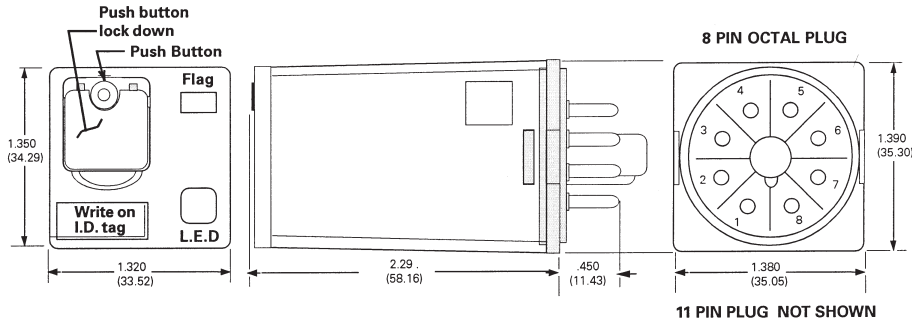
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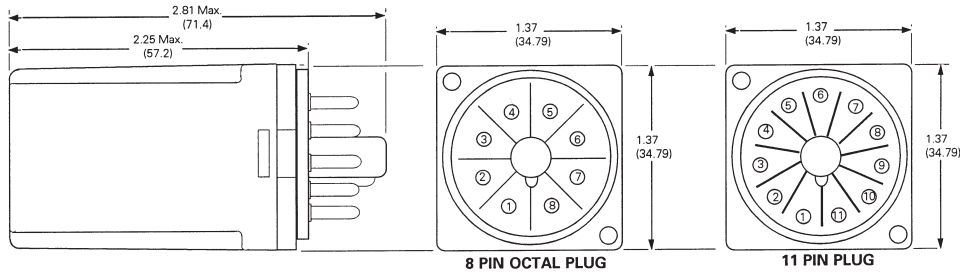
3TX71 plug-in relays

Dimension drawings

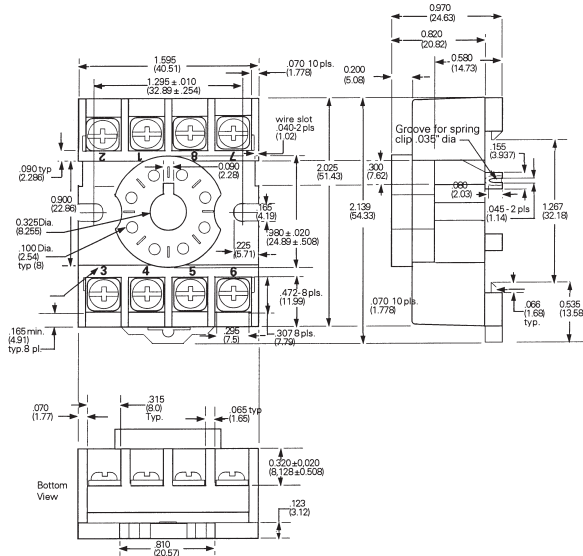
3TX7112



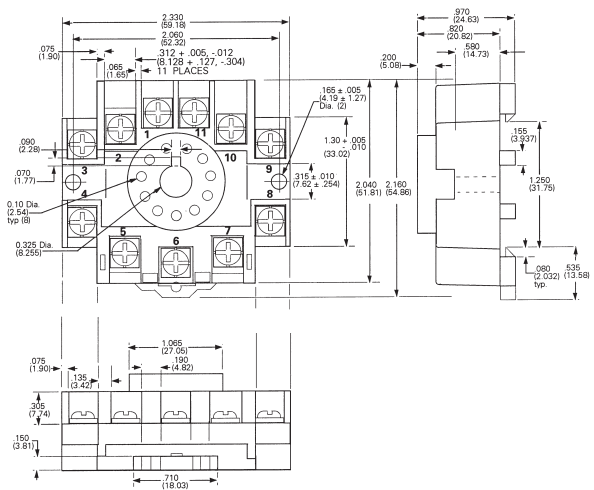
3TX7120



3TX7144-1E2



3TX7144-1E3



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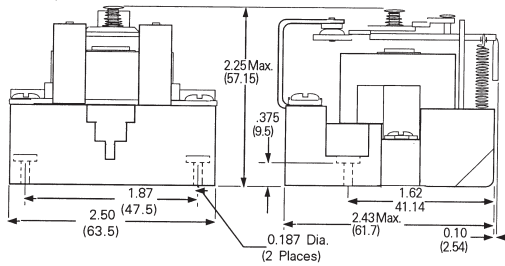


3TX71 plug-in relays

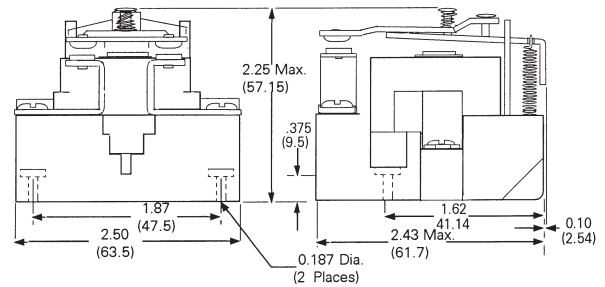
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Dimension drawings

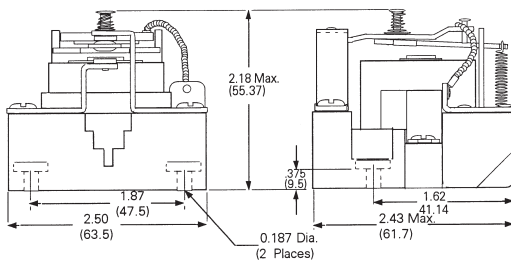
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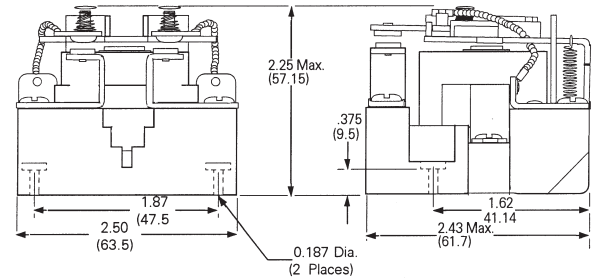
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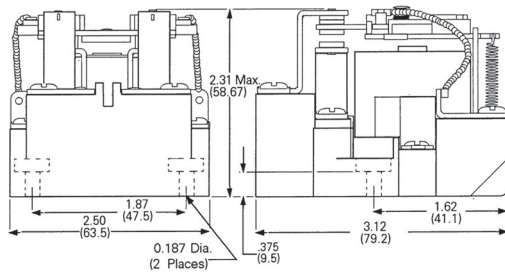
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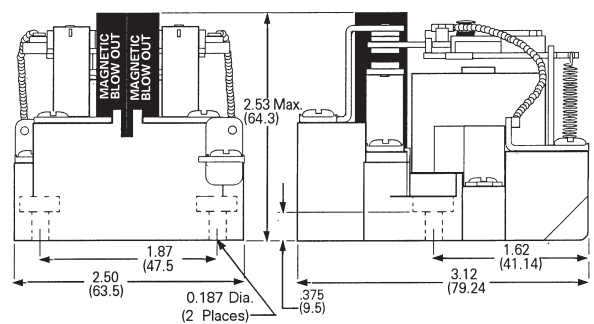
3TX7130 DPST NO



3TX7130 DPDT



3TX7130 DPDT with magnetic blowout



3TX7136

