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The following comparison of symbols for diagrams is based upon the international specification IEC 617-1...13

Description	Symbol	Description	Symbol	Description	Symbol	Description	Symbol
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Conductors and connecting devices

Junction of conductors		Connection of conductors		Terminal		Terminal strip	
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Conductor		Protective conductor		Frame for devices		screen	
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Ground		Noiseless ground		Protective ground		chassis	
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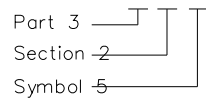
Connector with plug pin and socket		Isolation point					
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Passive components

Resistor		Variable resistor		Spark killer		Three phase spark killer	
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Winding, inductance		Capacitor		Voltage depend resistor Varistor			
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Example:



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





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67		68		69		70		71		72					
Description		Symbol		Description		Symbol		Description		Symbol					
Contacts															
Make contact				Break contact				Change-over break before make contact							
Make contact delayed when closing				Break contact delayed when reclosing				Thermal switch (make contact)							
Thermal switch (break contact)				Two-way contact with centre-off position											
Electromagnetic operating devices															
Relay, contactor				Drop-out delay for relay				Pick-up delay for relay				Latch relay			
Solenoid				Electromagnetic overcurrent releases				Thermal overcurrent releases							
Transformers															
Transformers with two separate															

73		74		75		76		77		78	
Description		Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description	Symbol	
Machines											
Motor		D.C. motor		Three-pole motor		Fan motor					
Heat exchanger											
Signalling devices											
Lamp		Flash lamp		Indicator		Buzzer					
Semiconductor components											
Diode		Bridge diode		Light emitting diode(LED)		Light emitting diode(LED)					
PNP transistor		NPN transistor									



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79		80		81		82		83		84	
Description		Symbol	Description		Symbol	Description		Symbol	Description		Symbol
Control devices											
Limit switch (make contact)			Limit switch (break contact)			Manual switch (make contact)			Manual switch (break contact)		
Float switch (make contact)			Float switch (break contact)			Manual switch (make contact, non-automatic return)			Manual switch (break contact, non-automatic return)		
Emergency stop (make contact)			Emergency stop (break contact)			Foot switch (make contact)			Foot switch (break contact)		
Proximity switch (make contact, 2-lines)			Proximity switch (break contact, 2-lines)			Push button (make contact, non-locking)			Push button (break contact, non-locking)		
Proximity switch (make contact, 3-lines)			Proximity switch (break contact, 3-lines)			Pressure switch (make contact)			Pressure switch (break contact)		
Turn-switch (make contact, non-locking)			Turn-switch (break contact, non-locking)			Key switch (center off)					
Key switch (make contact)			Key switch (break contact)								



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