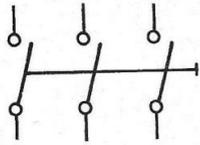
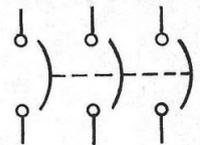
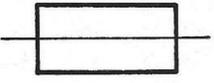
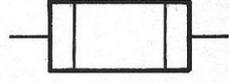
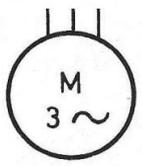
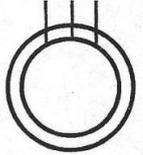
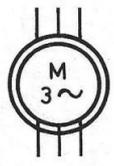
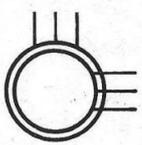
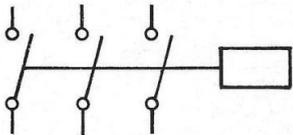
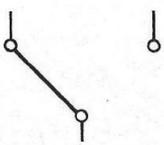
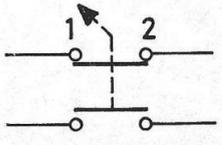
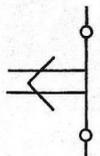
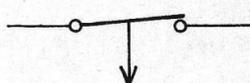
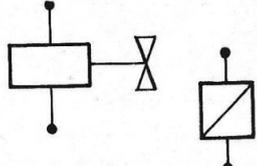
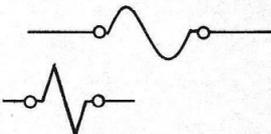
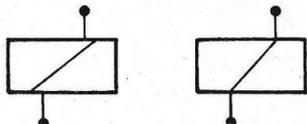
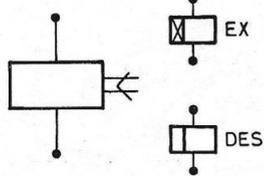
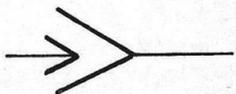
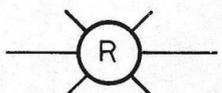
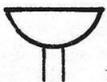
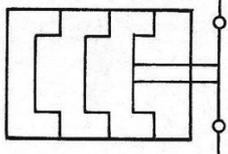
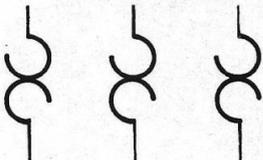
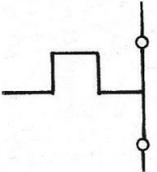
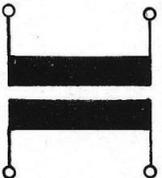
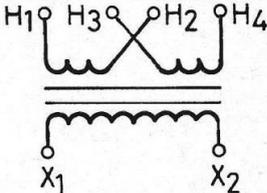
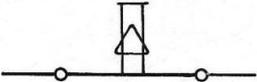
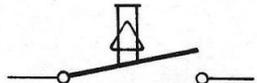
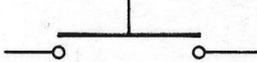
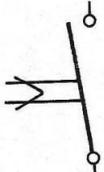
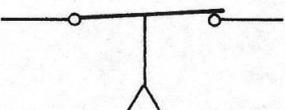
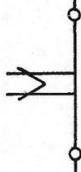
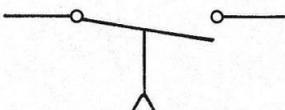
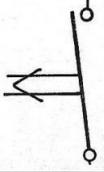
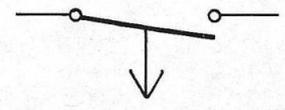
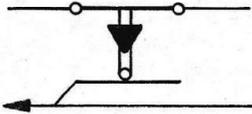
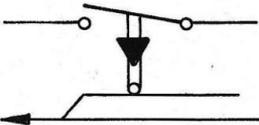
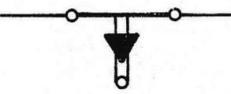
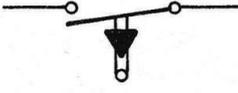
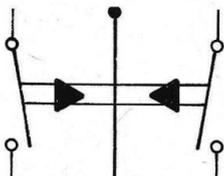
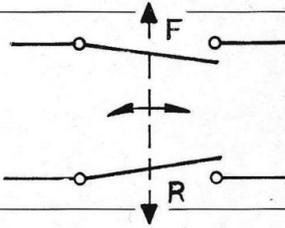
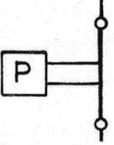
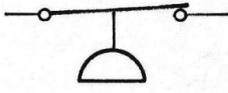
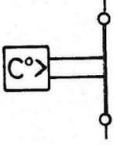
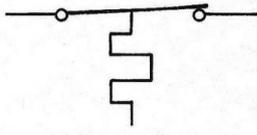
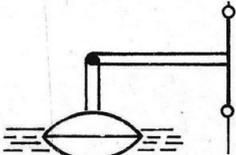
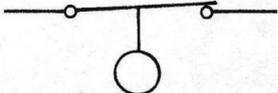


**SÍMBOLOS DE ELECTRICIDAD**

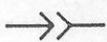
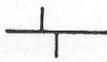
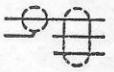
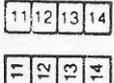
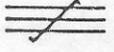
SÍMBOLO	NORMAS DIN	NORMAS JIC (EUA)
Interruptor general de línea		
Fusible		
Contacto normalmente cerrado		
Contacto normalmente abierto		
Motor asincrono trifásico Jaula de Ardilla		
Motor asincrono trifásico Anillos rozantes Rotor bobinado		
Contactos de potencia de un contador		
Conmutador (Selector)		

<p>Contacto temporizado a la desexcitación normalmente cerrado</p>		
<p>Eletroválvula</p>		
<p>Bobina contactor</p>		
<p>Bobina temporizador</p>		
<p>Enchufe con borne y clavija</p>		
<p>Lámpara piloto</p>		
<p>Timbre</p>		
<p>Zumbador</p>		

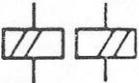
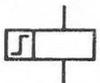
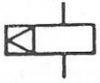
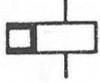
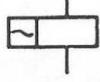
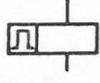
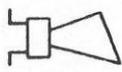
<p>Relé térmico (Potencia)</p>		
<p>Contacto de relé térmico</p>		
<p>Transformador</p>		
<p>Pulsador de paro</p>		
<p>Pulsador de marcha</p>		
<p>Contacto temporizado a la excitación normalmente abierto</p>		
<p>Contacto temporizado a la excitación normalmente cerrado</p>		
<p>Contacto temporizado a la desexcitación normalmente abierto</p>		

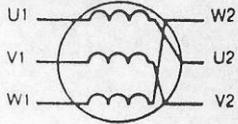
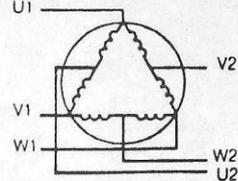
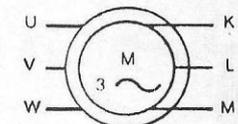
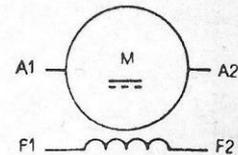
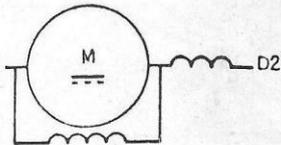
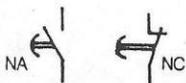
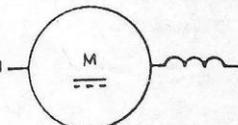
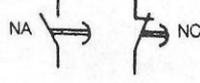
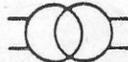
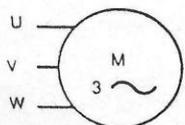
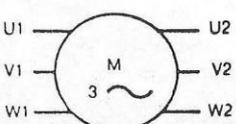
<p>Microrruptor cerrado actuando</p>		
<p>Microrruptor abierto actuando</p>		
<p>Microrruptor cerrado libre</p>		
<p>Microrruptor abierto libre</p>		
<p>Interrupor centrífugo</p>		
<p>Presostato</p>		
<p>Termostato</p>		
<p>Contacto a boya</p>		

## SIMBOLOGÍA DE ELECTRICIDAD NUEVAS NORMAS EUROPEAS

Corriente alterna		Clavija macho	
Corriente continua		Toma hembra	
Corriente ondulada o rectificada		Clavija y toma asociadas	
Corriente alterna trifásica 50 Hz	3  50 Hz	Conectores acoplados 1) parte móvil, macho. 2) parte fija, hembra	
Puesta a tierra		Conductor, circuito auxiliar	
Puesta a masa		Conductor, circuito principal	
Tierra de protección		Haz de 3 conductores	
Derivación		Representación unifilar	
Doble derivación		Conductor neutro	N 
Cruce sin conexión		Conductor de protección	PE 
Borna de conexión		Conductores blindados (apantallados)	
Bornero de conexión (Regleta de terminal)		Conductores trenzados	
Conexión por contacto deslizante		Fusible	

Fusible con percutor		- por volante	
Rectificador		- por pedal	
Puente rectificador		Enclavamiento mecánico	
Tiristor		- accionado por el nivel de un fluido	
Condensador		- accionado por un número de sucesos	
Pila o acumulador		- accionado por la presencia de un caudal	
Resistencia		- accionado por presión	
Shunt		Electro-válvula	
Inductancia		Reloj	
Potenciómetro		Contador de impulsos	
- por pulsador (retorno automático)		Detector sensible al roce	
- por tirador (retorno automático)		Detector de proximidad	
- rotativo (de enganche)		Detector de proximidad inductivo	
- de seta		Detector de proximidad capacitivo	

Mando electromagnético (símbolo general)		Zumbador	
- de 2 arrollamientos		Lámpara de señalización o de alumbrado	
- representación desarrollada		Dispositivo luminoso intermitente	
- de acción retardada		(símbolo general) 1) principal 2) auxiliar	
- de reposo retardado		Contacto «apertura» NC (símbolo general) 1) principal 2) auxiliar	
- de un relé de remanencia		Interruptor (símbolo general)	
- de enclavamiento mecánico		Seccionador	
- de un relé polarizado		Contactador	
- de corriente alterna		Ruptor	
- de un relé intermitente		Disyuntor	
Bocina, Klaxon		Guardamotor	
Timbre		Interruptor seccionador	
Sirena		Interruptor seccionador con apertura automática	

<p>Seccionador fusible</p>		<p>- de 6 bornas de salida (acoplamiento estrella-triángulo)</p>	
<p>Contactos de dos direcciones sin solapado (apertura antes que el cierre)</p>		<p>- de polos conmutables (motor de 2 velocidades)</p>	
<p>Contactos de dos direcciones solapados</p>		<p>Motor asíncrono trifásico rotor de anillos</p>	
<p>Contacto de dos direcciones con un punto central en posición de apertura</p>		<p>Motor de corriente continua con excitación independiente</p>	
<p>Interruptor de posición (NA/normalmente abierto NC/normalmente cerrado)</p>		<p>Motor de corriente continua con excitación compuesta</p>	
<p>Contacto temporizado al trabajo (NC/normalmente cerrado, NA/normalmente abierto)</p>		<p>Motor de corriente continua con excitación serie</p>	
<p>Contacto temporizado al reposo (NC/normalmente cerrado, NA/normalmente abierto)</p>		<p>Transformador de tensión</p>	
<p>Motor asíncrono trifásico - de jaula de ardilla</p>		<p>Autotransformador</p>	
<p>- de 2 arrollamientos estáticos separados</p>		<p>Transformador de intensidad</p>	