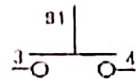
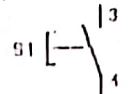


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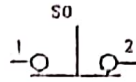
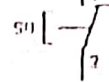
ANSI
American National Standards Institute

IEC
International Electrotechnical
Commission

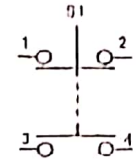
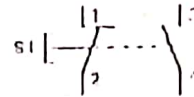
Botón Pulsador N.O ó N.A



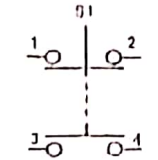
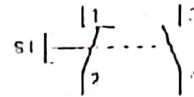
Botón Pulsador N.C



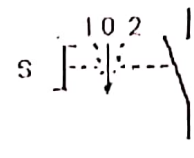
Botón Pulsador Conexión-Desconexión



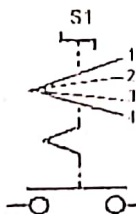
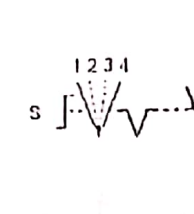
Selector Rotativo de 2 Posiciones



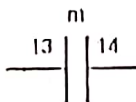
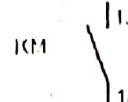
Selector Rotativo de 3 Posiciones



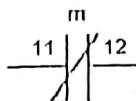
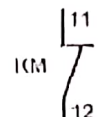
Selector Rotativo de 4 Posiciones con Retorno
no Automático



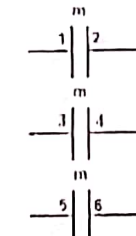
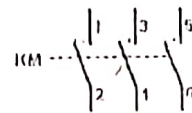
Contacto Auxiliar Instantáneo NA (NO)



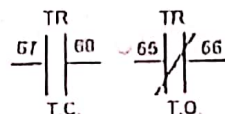
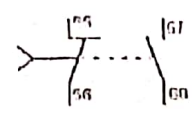
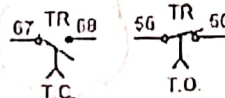
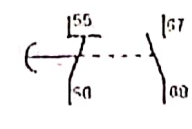
Contacto Auxiliar Instantáneo NC



Contactos Principales



Contactos Temporizado al Trabajo

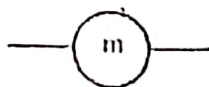
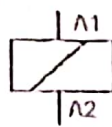


DESCRIPCIÓN DEL ELEMENTO

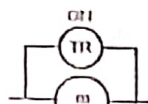
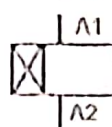
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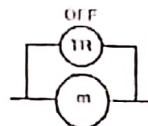
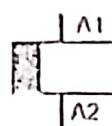
Bobina de Contactor de Acción Instantánea



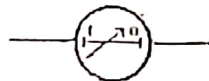
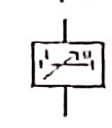
Bobina de Contactor Con Temporizador Neumático ON Delay



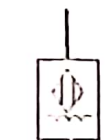
Bobina de Contactor Con Temporizador Neumático OFF Delay



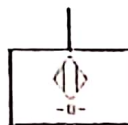
Temporizador Electrónico Serie



Detector de Proximidad Inductivo



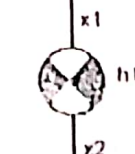
Detector de Proximidad Capacitivo



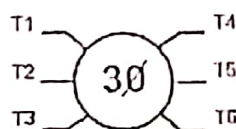
Detector Fotoeléctrico



Piloto Luminoso



Motor Trifásico 6 Terminales

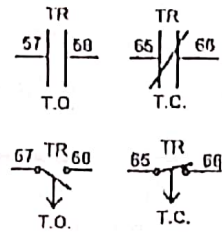
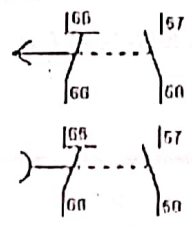


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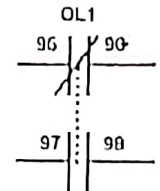
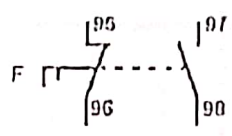
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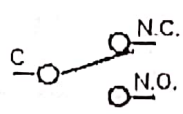
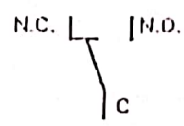
Contactos Temporizado al Reposo



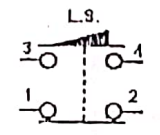
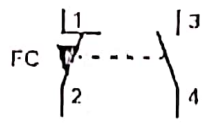
Contactos de Relé Térmico



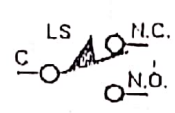
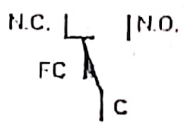
Contactos de Conmutación



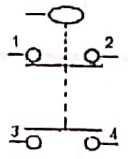
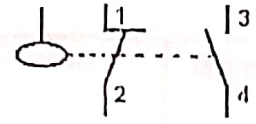
Interruptores Limite 4 Bornes
Final de Carrera 4 Bornes
Microruptor 4 Bornes
Interruptor de Posición 4 Bornes



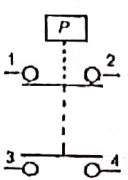
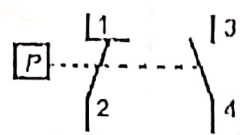
Interruptores Limite 3 Bornes
Final de Carrera 3 Bornes
Microruptor 3 Bornes
Interruptor de Posición 3 Bornes



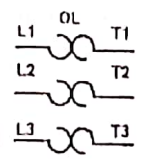
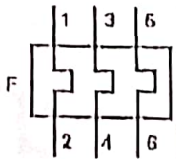
Interruptor de Nivel



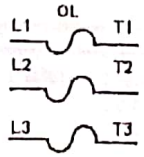
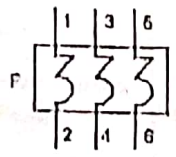
Interruptor de Presión ó Presostato



Relé Térmico



Relé Termomagnético



SIMBOLOGIA ESTANDART AMERICANA PARA DIAGRAMAS ELECTRICOS TIPO AMERICANO

DESCONECTADOR DE HAVAJAS	DESCONECTADOR MOLDEADO	MOLDEADO C / ELEMENTO TERMICO	MOLDEADO C/ ELEMENTO MAGNETICO	MOLDEADO TERMOMAGNETICO

DISPOSITIVOS DE PROTECCION DE TRES FASES PARA 220 o 440 Vac.

NORMALMENTE ABIERTO SIN ACTIVAR	NORMALMENTE ABIERTO CON LEVA ACCIONADA	NORMALMENTE CERRADO	NORMALMENTE CERRADO CON LEVA ACCIONADA

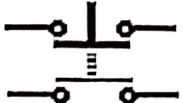
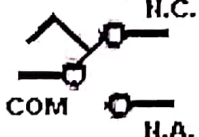
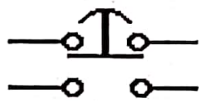
SIMBOLOS DE INTERRUPTORES DE LIMITE

INTERRUPTOR DE PRESION N.A.	INTERRUPTOR DE PRESION H.C.	INTERRUPTOR DE NIVEL N.A.	INTERRUPTOR DE NIVEL H.C.

INTERRUPTOR DE TEMPERATURA N.A.	INTERRUPTOR DE TEMPERATURA H.C.	INTERRUPTOR DE FLUJO N.A.	INTERRUPTOR DE FLUJO H.C.

N.A. CON TIEMPO PARA CERRAR ON-DELAY	H.C. CON TIEMPO PARA ABRIR ON-DELAY	N.A. CON TIEMPO PARA ABRIR OFF-DELAY	H.C. CON TIEMPO PARA CERRAR OFF-DELAY

SIMBOLOGIA UTILIZADA PARA LOS DOS TIPOS DE TEMPORIZADORES

PUSH BOTON H.A. 	PUSH BOTON H.C. 	PUSH BOTON CONTACTOS DOBLES 	BOTON SELECTOR O DE PALANCA 
CONTACTO DE RELAY H.A. 	CONTACTO DE RELAY H.C. 	BOBINA DE RELAY LADDER 	BOBINA DE VALVULA SOLENOIDE 
ACTUADOR H.A. DE PIE (PEDAL) 	ACTUADOR H.C. DE PIE (PEDAL) 	BOTON CABEZA HONGO PARO EMERGENCIA 	LAMPARA PILOTO COLORES 

MOTOR TRIFASICO REVERSIBLE:

Diagrama de Alambrado

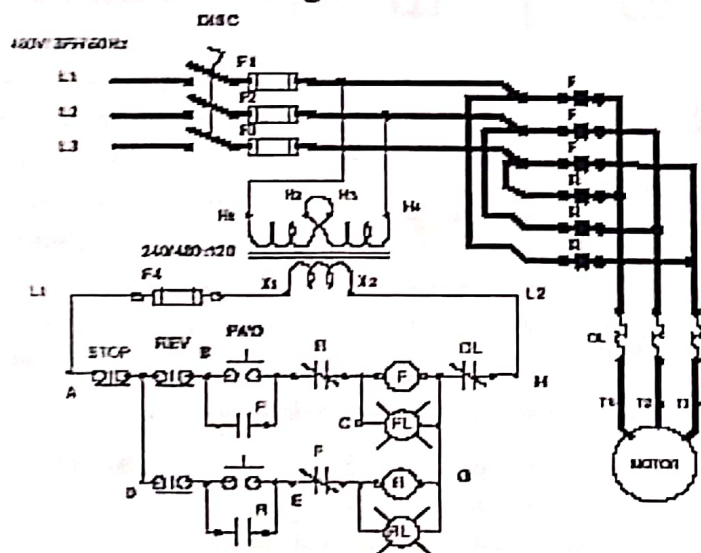


TABLA COMPARATIVA DE SIMBOLOS ELECTRICOS

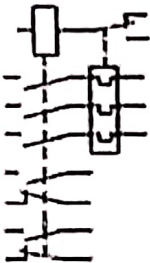
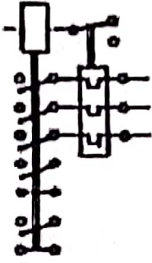
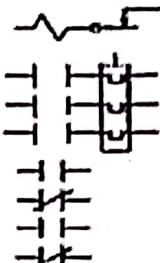
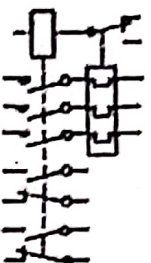
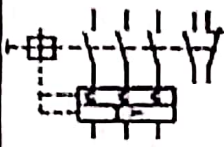
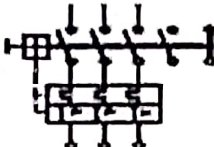
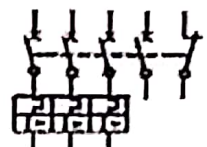
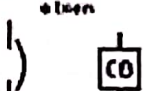
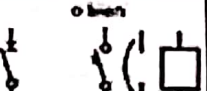
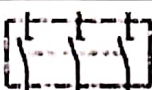
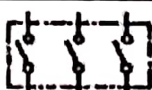
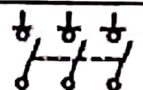
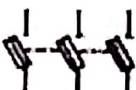
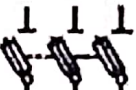
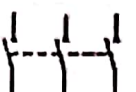
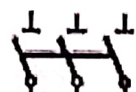
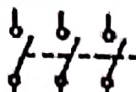
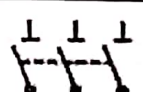
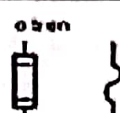
DENOMINACION	DIN 1980	DIN 1969	ANSI	IEC
CONTACTOR CON RELEVADOR BIMETALICO				 <i>(A como Autolimitador)</i>
INTERRUPTOR TRIPOLAR CON MECANISMO DE EMBRAGUE Y RELEVADOR BIMETALICO				
SECCIONADOR DE POTENCIA				
INTERRUPTOR DE POTENCIA				
SECCIONADOR 3 POLOS BAJO CARGA			—	
SECCIONADOR DE FUSIBLES 3 POLOS				
SECCIONADOR 3 POLOS				
FUSIBLE				

TABLA COMPARATIVA DE SIMBOLOS ELECTRICOS

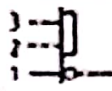
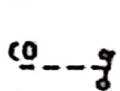
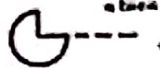
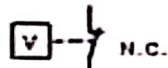
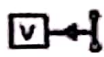
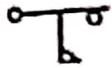
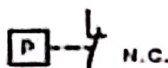
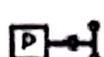
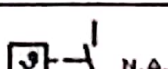
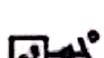
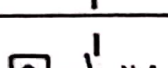
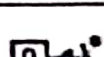
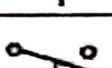
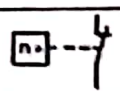
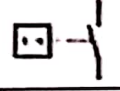
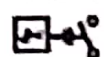
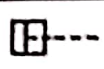
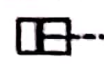
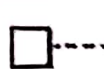
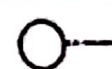
DENOMINACION	DIN 1980	DIN 1969	ANSI	IEC
ACCIONAMIENTO POR LEVAS				
INTERRUPTOR DE FLUJO PARA ABRIR				
INTERRUPTOR DE PRESION Y VACIO				
INTERRUPTOR TERMOSTATICO				
INTERRUPTOR DE FLOTADOR				
ELEVADO / BAJA VELOCIDAD DE FLUJO	$v > / v <$		$v \uparrow / v \downarrow$	
ELEVADA / BAJA PRESION	$p > / p <$		$p \uparrow / p \downarrow$	
ELEVADA / BAJA TEMPERATURA	$t > / t <$		$t \uparrow / t \downarrow$	
ELEVADO / BAJO NIVEL LIQUIDO	$q > / q <$		$l \uparrow / l \downarrow$	
ELEVADA / BAJA VELOCIDAD	$n > / n <$		$sp \uparrow / sp \downarrow$	
APERTURA POR SOBREVELOCIDAD			$> \neq sp \downarrow$	
CIERRE POR BAJA TEMPERATURA			$> \neq t \downarrow$	
ACCIONAMIENTO POR EMBOLO				
ACCIONAMIENTO POR FUERZA				

TABLA COMPARATIVA DE SIMBOLOS ELECTRICOS

	DIN 1980	DIN 1969	ANSI	IEC
RETARDOS DE TIEMPO ELECTROMAGNETICOS				
RETARDO A LA APERTURA ON DELAY				
RETARDO A LA DESCONEXION OFF DELAY				
RELEVADORES POLARIZADOS				
RELEVADORES DE REMANENCIA			—	