

آکادمی تخصصی برق استایل آموزش تخصصی نقشـه خوانی و نقشـه کشـی برق و اتوماسـیون صنعتی

Dyffibol overview the hibra	' <b>y</b>		
Symbol description: Power NO contact of a contactor  Function definition: Power NO contact	ď	NC contact, late break  NC contact, late break	Electromechanical operating device of an AC relay  Coil, AC
connecting points: 2		2	2
NO contact	1	NO contact, momentary contact, contact make on actuation (right)	Electromechanical operating device with pick-up and off-delay
NO auxiliary contact 2	`	NO contact, momentary contact make, right  2	Coil, with pick-up and drop-out delay
NC contact	L	NO contact, momentary contact on actuation and release (right and left)	Electromechanical operating device of a remanent relay
NC auxiliary contact	7	NO contact, momentary contact make, right and left	Coil, remanent relay
NO contact, with delayed closing		NO contact, momentary contact, contact make on release (left)	Electromechanical operating device with off-delay
NO contact, with delayed closing 2	$\rightleftharpoons$	NO contact, momentary contact make, left  2	Coil with drop-out delay
NC contact, with delayed opening		NO contact, electrothermal actuation	Terminal
NC contact, with delayed opening		NO contact, thermal release	Terminal, general, with saddle jumper, 2 connection points
NO contact, with delayed opening		NC contact, electrothermal actuation	Female and male pin
NO contact, with delayed opening	<b>\\</b>	NC contact, thermal release	Male and female pin
NC contact, with delayed closing	L	Electromechanical operating device, general / relay coil, general	Fused terminal
NC contact, with delayed closing		Coil for power contactor	Terminal, general, 2 connection points  2
NO contact, leading		Electromechanical operating device with pick-up delay	Fused terminal with LED
NO contact, leading	`	Coil, with pick-up delay	Terminal, general, 2 connection points











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Symbol overview lee cibral	7	<u> </u>	
Symbol description: Pressure switch, NO contact  Function definition: Pushbutton, NO contact  connecting points: 2	E	Switch, NO contact  Switch, NO contact	Resistor, general Resistor, single
Pressure switch, NC contact  Pushbutton, NC contact  2	E	Switch, NC contact  Switch, NC contact	Capacitor, general  Capacitor, single
Rotary switch, NO contact  Switch, NO contact  2	F~/	Solenoid valve, general  Valve, single	Semiconductor diode, general  Semiconductors, 2 connection points
Rotary switch, NC contact  Switch, NC contact  2	5~- <del>\</del>	Lamp / indicator light, general  Lamp, single	Rectifier, single-phase  Rectifier, variable
Limit switch, NO contact  Limit switch, NO contact	4	Horn Signal device, acoustic, single	Bridge rectifier, three-phase  Rectifier, variable
Limit switch, NC contact  Limit switch, NC contact	¥	Solenoid brake  Brake, single	Single-phase transformer with two windings and shield  Transformer, 5 connection points with PE
Switch, NO contact, operation by pushing  Switch, NO contact	E~-	Light-emitting diode (LED), general  Lamp, single	Three-phase transformer, wye-wye connection  Transformer, 7 connection points with PE
Switch, NC contact, operation by pushing  Switch, NC contact	E~	Fuse, single-pole, general  Safety fuse	Three-phase induction motor, star-delta connection  Motor with PE, variable











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Symbol description: DC motor, general  Function definition: Single-coil motor without PE  connecting points: 2	Pressure switch, NC contact  Switch, NC contact	Rotary switch, three-pole, NO contact
Three-phase asynchronous motor, one rotation speed  Three-phase motor  4	Pushbutton, NC contact, operation by pedal  Pushbutton, NC contact	Electromechanical device of a thermal relay, three-pole  Thermal release (bimetal relay)
Fuse, three-pole, general  Triple safety fuse	Line filter, two-pole  Converter, variable	Fuse, two-pole, form 2  Double safety fuse
Pressure switch, NO contact  Switch, NO contact  2	Generator, tacho-generator, general  Generator, variable	Female receptacle, three-pole  Others, variable
Thermocouple  Analog sensor, 2 connection points	Pulse generator  Generator, variable  6	Fuse circuit breaker, single-pole  Fused disconnect, single
Pushbutton, NO contact  Pushbutton, NO contact  J	Fuse, two-pole, general  Double safety fuse	Disconnect switch, three-pole  Switch, triple NO contact
Inductor / coil / winding / reactor  Inductor, single	Cam switch, NO contact  Limit switch, NO contact	Disconnect switch, single-pole  Switch, NO contact
Inductor with magnetic core  Inductor, single	Cam switch, NC contact  Limit switch, NC contact	Resistor, voltage-dependent / varistor  Resistor, single











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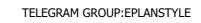
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Symbol description: Light barrier  Function definition: Light barrier, NO contact  connecting points: 2	**************************************	Clock / secondary clock, general  Measuring instrument, 2 connection points	Discharger Discharger, single-pole
Neon lamp Lamp, single 2		NC contact, electrothermal release, lock-out / reset NC contact, thermal release	Current transformer (path 1)  Inductor, single
Alarm / bell Signal device, acoustic, single 2	Ç	Power circuit breaker / motor overload switch with switch mechanism and line  Motor overload switch three-pole  6	Three-phase induction motor, two rotation speeds, pole-change, two separate windings  Motor with PE, variable
Thyristor diode, bidirectional, Diac Semiconductors, 2 connection points 2		Circuit breaker, single-pole  Circuit breaker	Three-phase induction motor, two rotation speeds, pole-change, one winding  Motor with PE, variable
Count function with NO contact  Measuring instrument, variable	<b>○</b> ┤	Thyristor triode  Semiconductors, 3 connection points	Three-phase motor for ventilating fan  Three-phase motor  4
Measuring instrument, with voltage display / voltmeter  Measuring instrument, 2 connection points	V	NO temperature switch  Switch, NO contact  2	Three-phase asynchronous motor with thermal monitoring, one rotation speed, one speed Motor with PE, variable
Measuring instrument, with current display, ampmeter  Measuring instrument, 2 connection points	A	NC temperature switch  Switch, NC contact   2	Bridge rectifier, three-phase  Rectifier, variable
Zener diode / breakdown diode, unidirectional / voltage limiting diode Semiconductors, 2 connection points	*	Magnetic clutch Coupling, single	Three-phase induction motor, three rotation speeds, pole-change, two separate windings  Motor with PE, variable  10











Symbol description: Resistance bridge  Function definition: Resistor, variable  connecting points: 4	Plug, three-pole  Plug with PE, 3 connection points	Flow switch, general, NC contact  Switch, NC contact
Heating element  Heating, 2 connection points	Power circuit breaker / motor overload switch with switch mechanism and without line Motor overload switch three-pole  6	Light barrier, transmitter, AC supply  Light barrier, transmitter
Resistor, variable Resistor, single	RC network Resistor, single	Light barrier, receiver, AC supply Light barrier, variable
Buzzer / rattle  Signal device, acoustic, single  2	Load-break switch, three-pole, NO contact, operation by turning Switch, triple NO contact $ F \sim \begin{matrix} 1 & -1 & -1 \\ -1 & -1 \end{matrix} $	Light barrier, transmitter, DC supply  Light barrier, transmitter
Resistor, adjustable  Resistor, single	Rotary switch, two-pole, NO contact	Light barrier, receiver, DC supply  Light barrier, NO contact with power supply
Resistor, inherent, non-linear Resistor, single	Float switch, NO contact  Switch, NO contact	Photoelectric switch, NO contact, with plug-in connection  Light barrier, NO contact with power supply
Circuit breaker, two-pole  Double circuit breaker	Float switch, NC contact  Switch, NC contact	Photoelectric switch, NO contact  Light barrier, NO contact with power supply
Lamp, supplied by a built-in transformer  Lamp, single	Flow switch, general, NO contact  Switch, NO contact	Proximity sensor, NC contact, with plug-in connection  Proximity switch, NC contact with power supply  3











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Symbol description: Proximity sensor, NO contact, with plug-in connection  Function definition: Proximity switch, NO contact with power supply  connecting points: 3	Pushbutton, NO contact  Pushbutton, NO contact	Emergency stop switch / Emergency stop pushbutton, NO contact  Pushbutton, NO contact  2
Proximity sensor, NC contact  Proximity switch, NC contact with power supply  3	Pushbutton, NC contact  Pushbutton, NC contact  F 7	Emergency stop switch / Emergency stop pushbutton, NC contact  Pushbutton, NC contact  2
Proximity sensor, NO contact  Proximity switch, NO contact with power supply  3	Female and male pin, coaxial  Male and female pin	Slipring transformer  Device connection point, 2 connection R S
Proximity sensor, NO contact  Proximity switch, NO contact	Electromechanical operating device of an overvoltage release  Overvoltage release  2	Circuit breaker, three-pole, with line for auxiliary contact  Triple circuit breaker
Proximity sensor, NC contact  Proximity switch, NC contact	Electromechanical operating device of an undervoltage release  Undervoltage release  2	Indicator light, blinking  Lamp, single
Emergency stop switch / Emergency stop pushbutton, NC contact, with turn-to-reset  Pushbutton, NC contact	Electromechanical operating device of a ground fault current release  Current circuit breaker	Rotating lamp  Lamp, single
Inductor with magnetic core, three-phase  Inductor, variable	Operating hours counter  Measuring instrument, 2 connection points  h	Lamp / indicator light, with lamp test function Lamp, 3 connection points
Circuit breaker, single-pole, with line for auxiliary contact  Circuit breaker	Pulse counter  Measuring instrument, 2 connection points	AC motor for ventilating fan  AC motor with PE











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Symbol description: Enclosure light with female receptacle  Function definition: Light, variable  connecting points: 3	Single-phase transformer with two windings  Transformer, 4 connection points	Current transformer (path 3)  Inductor, single
Enclosure light with female receptacle  Light, 3 connection points	Three-phase transformer, wye-wye connection  Transformer, 6 connection points	Photoelectric switch, NC contact, with plug-in connection  Light barrier, NC contact with power supply
Fluorescent lamp with PE  Light, 3 connection points	Transformer, 2 windings on one side  Transformer, 4 connection points	Photoelectric switch, NC contact  Light barrier, NC contact with power supply
Rectifier in bridge circuit  Rectifier, variable	NO contact without cross-reference  NO auxiliary contact	Ultrasonic sensor, NO contact  Proximity switch, NO contact with power supply  3
Three-phase bridge circuit  Rectifier, variable	NC contact without cross-reference  NC contact (do not use anymore)	Ultrasonic sensor, NC contact  Proximity switch, NC contact with power supply  3
Bridge rectifier, two-phase, secondary side 2 connection points  Rectifier, variable	Isolating terminal, closed  Isolating terminal, 2 connection points	Switch, NO contact, general  Switch, NO contact  1
Electromechanical operating device of a blinking relay  Coil, clock generator	Potential transformer with phase monitoring  Converter, variable	Switch, NC contact, general  Pushbutton, NC contact  1
Electromechanical operating device of a multi-function relay  Coil, multi-function relay	Current transformer (path 2)  Inductor, single	Pushbutton, NO contact, operation by key  Pushbutton, NO contact

IEC STANDARD SYMBOL







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## Symbol overview IEC Library



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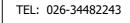
Symbol overview lee Library		
Symbol description: Pushbutton, NC contact, operation by key  Function definition: Pushbutton, NC contact  connecting points: 2	Photoresistor  Resistor, single	Optocoupler, 6 conductors  Converter, variable
Second coil for remanent relay (detached representation)  Coil, remanent relay	Three-phase transformer, delta-star connection  Transformer, 6 connection points	Socket of a plug connection  Female pin, 2 connection points
NO cam-switch device  Limit switch, NO contact	Potential transformer  Transformer, 4 connection points	Female pin of a plug connection with direct connection point  Female pin, 2 connection points
NC cam-switch device  Limit switch, NC contact	Battery / primary or secondary element / accumulator  Voltage source, variable	Plug of a plug connection  Male pin, 2 connection points
3-phase line reactor for NC devices  Inductor, variable	AC motor  AC motor with PE  3	Proximity sensor, change-over contact  Proximity switch, variable
Three-phase transformer, star-delta connection  Transformer, 7 connection points with PE	Photoelectric switch, change-over contact  Light barrier, variable	Plug of a plug connection with direct connection point  Male pin, 2 connection points
Three-phase transformer, star-delta connection  Transformer, 6 connection points	Photoelectric switch, change-over contact, with plug-in connection  Light barrier, variable	Proximity sensor, change-over contact, with plug-in connection  Proximity switch, variable
Isolating terminal, opened  Isolating terminal, 2 connection points	Optocoupler, 4 conductors  Converter, variable	Limiter without thermal contacts, with switch mechanism and line  Motor overload switch three-pole  I>> I>> I>> I>> I>> I>> I>> I>> I>> I>













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Symbol description: Limiter with thermal contacts, switch mechanism and line  Function definition: Motor overload switch three-pole connecting points: 6	Resistor with two fixed tappings  Resistor, variable	Resistor, carbon pile  Resistor, single
Switch, leading NO contact, operation by key  Switch, NO contact	Ground fault current circuit-breaker, four-pole  Ground fault current circuit breaker, four-pole  8	Feedthrough capacitor Capacitor, 3 connection points
Resistor, PTC thermistor  Analog sensor, 2 connection points	Diode terminal  Terminal, variable	Capacitor, polarized (electrolytic capacitor)  Capacitor, single  2
Resistor, NTC thermistor  Analog sensor, 2 connection points	Female receptacle, five-pole (CEE)  Female receptacle with PE, 5 connection points  5	Capacitor, variable Capacitor, single
Resistor with movable contact  Resistor, single	NO contact with action line   NO auxiliary contact	Capacitor with default setting  Capacitor, single
Resistor with movable contact / potentiometer Resistor, 3 connection points	Three-phase asynchronous motor with thermal monitoring, two separate windings, change-pole, three rotation speeds Motor with PE, variable	NO contact, late break  NO contact, late break  2
Resistor with movable contact and "Off" position  Resistor, single	Emergency stop switch / Emergency stop pushbutton, NO contact, with turn-to-reset  Pushbutton, NO contact  2	NC contact, leading  NC contact, leading
Resistor, adjustable, with movable contact / potentiometer, adjustable  Resistor, 3 connection points	Shunt / Resistor with separate electrical and voltage connections Resistor, variable	NO contact, with delayed closing and opening  NO contact, with delayed closing and opening  2













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mbal description		
mbol description: Pushbutton, NO contact, operation by pulling	Switch disconnector, single-pole	Series motor, DC
nction definition: Pushbutton, NO contact	Switch, NO contact	Single-coil motor without PE
nnecting points: <sub>2</sub>	2	2
NC contact with automatic thermal actuation	Siren	Shunt motor, DC
Switch, NC contact	Signal device, acoustic, single	Single-coil motor without PE
2	2	2
NO contact, power circuit breaker	Whistle, electrically-operated	Transformer with center tap on one side
Switch, NO contact	Signal device, acoustic, single	Transformer, 5 connection points without PE
2	2	5
Power NO contact of a contactor with	Switch, NO contact, touch-sensitive	Power circuit breaker / motor overload
automatic actuation  Power NO contact	Switch, NO contact	switch with switch mechanism, thermal release, without line Motor overload switch three-pole
)		
2	2	6
Power NC contact of a contactor	Proximity switch, NO contact	Equipotential, electrically isolated equipotential bonding
Power NC contact	Switch, NO contact	PE device connection point
2	2	1
Disconnect switch	Switch, NO contact, proximity-sensitive,	Housing frame
Switch, NO contact	actuated by proximity of a magnet  Switch, NO contact	PE device connection point
2	2	1
Inductor with air gap in magnetic core	Fuse switch, single-pole	Protective ground / protective conductor connection
Inductor, single	Fused disconnect, single	PE device connection point
ا م	2	1
Industor with magnetic care permanently	Figo puitch disconnector circle pale	Cround law raise
Inductor with magnetic core, permanently variable	Fuse switch disconnector, single-pole	Ground, low-noise
Inductor, single	Fused disconnect, single	PE device connection point
2	2	1

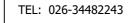














Symbol overview the history		
Symbol description: Ground, general  Function definition: PE device connection point  connecting points: 1	Connector for door Others, variable	Actuator motor  Three-phase motor  4
Solenoid valve, 2 coils  Valve, variable  4	Solenoid brake, three-wire  Brake, 3 connection points, without PE	Earth-isolating terminal  Terminal, variable
Solenoid valve with plug-in connection (stretched)  Valve, single	Line filter, three-pole  Converter, variable  3  1	Fused switch, two-pole  Fused disconnect, double
Electromechanical device of a thermal relay, four-pole Overload, variable  8	Fluorescent lamp without PE  Light, 2 connection points  2	Limiter without thermal contacts  Motor overload switch three-pole  I>> I>> I>> I>> I>> I>> I>> I>> I>> I>
Power-operated mechanism, general, NO contact  Switch, NO contact	Capacitors, delta connection  Capacitor, 3 connection points	Fused switch, three-pole  Fused disconnect, triple
Power-operated mechanism, general, NC contact  Switch, NC contact	Capacitors, star connection  Capacitor, 3 connection points	Fused switch, single-pole  Fused disconnect, single
Three-phase asynchronous motor, one rotation speed  Three-phase motor  4	Solenoid valve, coil with plug-in connection  Valve, single	PLC connection point, distributed view  PLC connection point, general
Electromechanical operating device of an undervoltage release  Undervoltage release  2	Solenoid valve, 2 coils, with plug-in connection  Valve, variable	PLC connection point, distributed view for combination with additional connection point PLC connection point, general













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#### آکادمی تخصصی برق استایل Symbol overview IEC Library آموزش تخصصی نقشه خوانی و نقشه کشی برق و اتوماسیون صنعتی Symbol description: PLC connection point, distributed view for combination with additional connection PLC connection point, distributed view (with rotated plug connection) PLC connection point, distributed view Function definition: point (plug connection) PLC connection point, general PLC connection point, general PLC connection point, general connecting points: 1 PLC connection point, distributed view (plug PLC connection point, distributed view for PLC connection point, distributed view, additional connection point combination with additional connection point (male pin) PLC connection point, general PLC connection point, general PLC connection point, distributed view for PLC connection point, distributed view for PLC connection point, distributed view for combination with additional connection combination with additional connection combination with additional connection point (with rotated plug connection) PLC connection point, general point PLC connection point, general point (female pin) PLC connection point, general PLC connection point, distributed view for PLC connection point, distributed view, PLC connection point, distributed view (with rotated plug connection) combination with additional connection additional connection point (male pin) PLC connection point, general PLC connection point, general PLC connection point, general PLC connection point, distributed view for combination with additional connection PLC connection point, distributed view, additional connection point (female pin) PLC connection point, distributed view, additional connection point (plug point (male pin) connection) PLC connection point, general PLC connection point, general PLC connection point, general PLC connection point, distributed view for PLC connection point, distributed view (plug PLC connection point, distributed view combination with additional connection point (female pin) PLC connection point, general PLC connection point, general PLC connection point, general PLC connection point, distributed view PLC connection point, distributed view for PLC connection point, distributed view combination with additional connection (female pin) point (with rotated plug connection) PLC connection point, general PLC connection point, general PLC connection point, general PLC connection point, distributed view, additional connection point (with rotated PLC connection point, distributed view Fused switch, single-pole (female pin) plug connection) PLC connection point, general PLC connection point, general Safety fuse, variable



Symbol description: Ground fault current circuit-breaker, two-pole  Function definition: Ground fault current circuit breaker, two-pole  connecting points: 4	Electromechanical operating device of a multi-function relay  Multi-function relay, 3 connection points	Pushbutton, NC contact, operation by pulling Pushbutton, NC contact
Electromechanical operating device of a latching relay  Coil for power contactor	Electromechanical operating device of a very fast switching relay  Coil for power contactor	Pushbutton, NC contact, operation by turning  Pushbutton, NC contact  F
Electromechanical operating device of a shunt release  Motor overload switch one-pole	Electromechanical operating device of a tuned relay  Coil for power contactor	Pushbutton, NO contact, operation by turning  Pushbutton, NO contact  J
Electromechanical operating device with off-delay  Coil, with drop-out delay, 3 connection points	Electromechanical operating device of a blinking relay  Clock generator, 3 connection points	Proximity switch, NC contact  Switch, NC contact
Electromechanical operating device, insensitive to AC  Coil for power contactor	Electromechanical operating device of an interlock relay  Coil for power contactor	Switch, NC contact, touch-sensitive  Switch, NC contact  2
Electromechanical operating device with pick-up delay  Coil, with pick-up delay, 3 connection points	Change-over contact with break point (2-path)  Change-over auxiliary contact	Switch, NC contact, proximity-sensitive, actuated by proximity of magnet  Switch, NC contact
Electromechanical operating device with pick-up and off-delay  Coil, with pick-up and drop-out delay, 3 connection points	Change-over contact with break point (3-path)  Change-over auxiliary contact	NO contact with automatic thermal actuation  Switch, NO contact
Electromechanical operating device of a remanent relay  Remanent relay, 3 connection points	NC contact, with delayed closing and opening  NC contact, with delayed closing and opening	Fuse circuit-breaker, three-pole  Fused disconnect, triple











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Symbol overview IEC Library	<u> </u>	مورس فحصصی فعلت خواهی و فعلت فلیمی برگ و افولتاسیوک فلیعتی
Symbol description: Circuit breaker, three-pole  Function definition: Triple circuit breaker  connecting points: 6	Three-phase induction motor, star-delta connection  Motor with PE, variable  7	Emergency stop switch / Emergency stop pushbutton, NC contact, with pull-to-reset  Pushbutton, NC contact
Circuit breaker, two-pole, with line for auxiliary contact  Double circuit breaker	Three-phase induction motor, two rotation speeds, pole-change, one winding  Motor with PE, variable	Emergency stop switch / Emergency stop pushbutton, NO contact, with pull-to-reset  Pushbutton, NO contact  2
Bridge rectifier, three-phase, secondary side 3 connection points  Rectifier, variable	Three-phase induction motor, two rotation speeds, pole-change, two separate windings  Motor with PE, variable  7	Emergency stop switch / Emergency stop pushbutton, NC contact, key release  Pushbutton, NC contact  2
Bridge rectifier, secondary side 3 connection points  Rectifier, variable	Three-phase asynchronous motor, with thermal monitoring, one winding, change-pole, two rotation speeds Motor with PE, variable	Emergency stop switch / Emergency stop pushbutton, NO contact, key release  Pushbutton, NO contact  2
Bridge rectifier, three-phase, secondary side 3 connection points  Rectifier, variable	Limiter with thermal contacts  Motor overload switch three-pole  I>> I>> I>> I>> I>> I>> I>> I>> I>> I>	Three-phase transformer, delta-star connection, with shield  Transformer, 7 connection points with PE
Bridge rectifier, single-phase, secondary side 3 connection points  Rectifier, variable	Measuring instrument, variable, with display  Measuring instrument, 2 connection points	Solenoid valve, general (stretched)  Valve, single
Indicator light, supplied by a built-in transformer  Lamp, single	Counter, variable  Measuring instrument, 2 connection points	Solenoid valve, PE connection point  PE device connection point  1
Electromechanical operating device of an overvoltage release  Overvoltage release  U>	Count function with NC contact  Measuring instrument, variable	NC contact with action line $  \frac{1}{4} $ 2

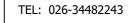












Symbol description: NC contact with spring return  Function definition: NC auxiliary contact  connecting points: 2	Switch, change-over contact (3-path), operated by pressing  Switch, change-over contact  E   3	Change-over contact, momentary contact, contact make on actuation (right)  Change-over contact, momentary contact make, right
Electromechanical device of a thermal relay, single-pole Overload, variable	Switch, change-over contact (2-path), operated by pressing  Switch, change-over contact  E	Rotary switch, NC contact, 2 positions  Switch, NC contact  2
NO contact with spring return  NO auxiliary contact	Change-over contact (2-path), with pick-up delay  Change-over contact, on-delay	Rotary switch, NO contact, 2 positions
N-position switch, 2 positions  Switch, variable $F \sim \stackrel{1}{+} \stackrel{?}{+}$	Change-over contact (3-path), with pick-up delay  Change-over contact, on-delay	Switch, change-over contact (2-path), touch-sensitive  Switch, change-over contact  \$\times \times \cdot \cd
N-position switch, 3 positions  Switch, variable $F \sim \frac{1}{1} \stackrel{?}{=} \frac{3}{1}$	Change-over contact (2-path), with drop-out delay  Change-over contact, off-delay	Switch, change-over contact (3-path), touch-sensitive  Switch, change-over contact
N-position switch, 4 positions  Switch, variable  F	Change-over contact (3-path), with drop-out delay  Change-over contact, off-delay	Pushbutton, change-over contact (2-path), operation by pushing  Pushbutton, change-over contact  E
N-position switch, 5 positions  Switch, variable  F	Change-over contact, momentary contact on actuation and release (right and left)  Change-over contact, momentary contact make, right and left	Pushbutton, change-over contact (3-path), operation by pushing Pushbutton, change-over contact  E
N-position switch, 6 positions  Switch, variable $F \sim \uparrow $	Change-over contact, momentary contact, contact make on release (left)  Change-over contact, momentary contact make, left	Pushbutton, change-over contact (2-path), operation by pedal  Pushbutton, change-over contact





Symbol description: Pushbutton, change-over contact (3-path), operation by pedal  Function definition: Pushbutton, change-over contact  connecting points: 3	Proximity switch, change-over contact (3-path)  Switch, change-over contact	Emergency stop switch / Emergency stop pushbutton, change-over contact (3-path), with pull-to-reset Pushbutton, change-over contact
Cam-switch device, change-over contact (2-path)  Limit switch, change-over contact	Switch, change-over contact (2-path), proximity-sensitive, actuated by proximity of magnet Switch, change-over contact	Emergency stop switch / Emergency stop pushbutton, change-over contact (2-path), key release Pushbutton, change-over contact
Cam-switch device, change-over contact (3-path)  Limit switch, change-over contact	Switch, change-over contact (3-path), proximity-sensitive, actuated by proximity of magnet Switch, change-over contact	Emergency stop switch / Emergency stop pushbutton, change-over contact (3-path), key release Pushbutton, change-over contact
Limit switch, change-over contact (2-path), mechanically operated  Limit switch, change-over contact	Emergency stop switch / Emergency stop pushbutton, change-over contact (2-path)  Pushbutton, change-over contact	Switch, change-over contact (2-path), operated by turning  Switch, change-over contact  F  3
Limit switch, change-over contact (3-path), mechanically operated  Limit switch, change-over contact	Emergency stop switch / Emergency stop pushbutton, change-over contact (3-path)  Pushbutton, change-over contact	Switch, change-over contact (3-path), operated by turning  Switch, change-over contact
Cam switch, change-over contact (2-path)  Limit switch, change-over contact	Emergency stop switch / Emergency stop pushbutton, change-over contact (2-path), with turn-to-reset Pushbutton, change-over contact	Switch, change-over contact (2-path), operated by key  Switch, change-over contact
Cam switch, change-over contact (3-path)  Limit switch, change-over contact	Emergency stop switch / Emergency stop pushbutton, change-over contact (3-path), with turn-to-reset Pushbutton, change-over contact	Switch, change-over contact (3-path), operated by key  Switch, change-over contact
Proximity switch, change-over contact (2-path)  Switch, change-over contact	Emergency stop switch / Emergency stop pushbutton, change-over contact (2-path), with pull-to-reset Pushbutton, change-over contact	Switch, change-over contact (2-path), general  Switch, change-over contact











Symbol overview lee Library		
Symbol description: Switch, change-over contact (3-path), general  Function definition: Switch, change-over contact  connecting points: 3	Pushbutton, change-over contact (3-path), operation by pulling  Pushbutton, change-over contact  3	Electromechanical operating device with off-delay  Coil, with drop-out delay, 4 connection points
Pushbutton, change-over contact (2-path), general Pushbutton, change-over contact  H	Switch, change-over contact (2-path), operation by turning, 2 positions  Switch, change-over contact  Switch, change-over contact	Single-phase autotransformer  Transformer, 4 connection points
Pushbutton, change-over contact (3-path), general  Pushbutton, change-over contact  1	Switch, change-over contact (3-path), operation by turning, 2 positions  Switch, change-over contact  F	Power circuit breaker / motor overload switch with switch mechanism, motor drive  Motor overload switch three-pole  6
Pushbutton, change-over contact (2-path), operation by turning Pushbutton, change-over contact  3	Change-over contact (2-path), with pick-up and off-delay  Change-over contact, on- and off-delay	Plug, five-pole (CEE)  Plug with PE, 5 connection points
Pushbutton, change-over contact (3-path), operation by turning Pushbutton, change-over contact	Change-over contact (3-path), with pick-up and off-delay  Change-over contact, on- and off-delay	Power circuit breaker / motor overload switch with switch mechanism and without line Motor overload switch one-pole
Pushbutton, change-over contact (2-path), operation by key  Pushbutton, change-over contact	Electromechanical operating device with pick-up delay  Coil, with pick-up delay, 4 connection points	Fuse, n-pole, general (placeholder)  Safety fuse, variable
Pushbutton, change-over contact (3-path), operation by key  Pushbutton, change-over contact	Electromechanical operating device with pick-up and off-delay  Coil, with pick-up and drop-out delay, 4 connection points	Terminal  Terminal, general, with saddle jumper, 2 connection points
Pushbutton, change-over contact (2-path), operation by pulling Pushbutton, change-over contact	Electromechanical operating device of a multi-function relay  Multi-function relay, 4 connection points	Electromechanical operating device of a remanent relay  Remanent relay, 4 connection points











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## Symbol overview IEC Library



# آکادمی تخصصی برق استایل آموزش تخصصی نقشـه خوانی و نقشـه کشـی برق و اتوماسـیون صنعتی

Symbol description: Protective circuiting of a coil through a diode  Function definition: Protective circuit, diode  connecting points: 2	Change-over contact (2-path), with drop-out delay  Change-over contact, off-delay	Switch disconnector, three-pole (double break), with fuse element  Safety switch, three-pole  6
Protective circuiting of a coil through a diode and zener diode  Protective circuit, diode with zener diode	Change-over contact (2-path), with pick-up and off-delay  Change-over contact, on- and off-delay	Switch disconnector, four-pole (double break), with fuse element  Safety switch, four-pole  8
Protective circuiting of a coil through a varistor  Protective circuit, varistor	Change-over contact (2-path), momentary contact, contact make on actuation (right)  Change-over contact, momentary contact make, right	Ground fault current circuit-breaker, two-pole  Ground fault current circuit breaker, two-pole  4
Protective circuiting of a coil through an RC element  Protective circuit, RC network	Change-over contact (2-path), momentary contact, contact make on release (left)  Change-over contact, momentary contact make, left	Ground fault current circuit-breaker, 2-pole (single-pole protected, 2-pole switching)  Ground fault current circuit breaker, two-pole
DC motor with brushes, general  Single-coil motor without PE  2	Change-over contact (2-path), momentary contact on actuation and release (right and left) Change-over contact, momentary contact make, right and left	Ground fault current circuit-breaker, 2-pole (2-pole protected, 2-pole switching)  Ground fault current circuit breaker, two-pole
Electromechanical operating device of a remanent relay, detached representation  Remanent relay, 4 connection points	Change-over contact (2-path) with self-actuating thermal actuation  Change-over contact, thermal release	Ground fault current circuit-breaker, 2-pole (single-pole protected, 2-pole switching)  Ground fault current circuit breaker, two-pole
Change-over contact (2-path) with break point  Change-over auxiliary contact	Change-over contact (3-path) with self-actuating thermal actuation  Change-over contact, thermal release	Ground fault current circuit-breaker, 4-pole (3-pole protected, 4-pole switching)  Ground fault current circuit breaker, four-pole  8
Change-over contact (2-path), with pick-up delay  Change-over contact, on-delay	Power circuit breaker / motor overload switch with switch mechanism and without line Motor overload switch, two-pole  4	Ground fault current circuit-breaker, 4-pole  Ground fault current circuit breaker, four-pole  8

IEC STANDARD SYMBOL









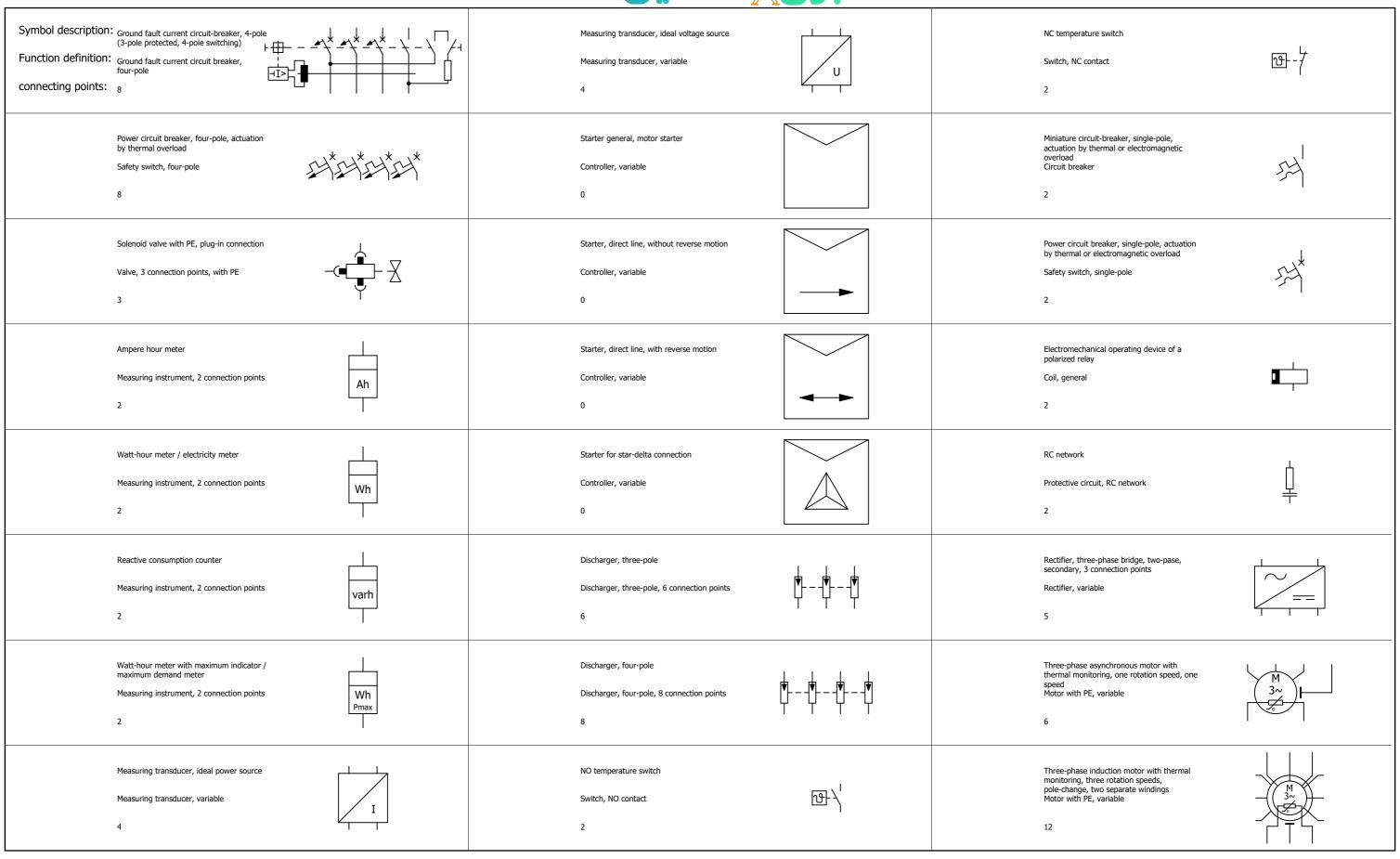




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#### آکادمی تخصصی برق استایل آموزش تخصصی نقشه خوانی و نقشه کشی برق و اتوماسیون صنعتی













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Symbol description: Three-phase induction motor with thermal monitoring, two rotation speeds, pole-change, one winding Motor with PE, variable connecting points: 9	Power-operated mechanism, general, change-over contact, two-path  Switch, change-over contact	Solenoid valve, double-acting valve (Part 1)  Valve, variable
Female receptacle with PE, three-pole  Female receptacle with PE, 3 connection points	Switch, NO contact, roller operation  Switch, NO contact  2	Solenoid valve, double-acting valve (Part 2)  Valve, variable  2
Fuse circuit-breaker, two-pole  Fused disconnect, double	Switch, NC contact, roller operation  Switch, NC contact  O  2	Solenoid valve, double-acting valve (Part 3)  Valve, variable
Temperature switch, change-over contact (2-path)  Switch, change-over contact	Female receptacle, four-pole with PE  Female receptacle with PE, 4 connection points	Solenoid valve, double-acting valve (Part 4)  Valve, variable  2
Pressure switch, change-over contact (2-path)  Switch, change-over contact  P	Plug, four-pole  Plug with PE, 4 connection points	Operational amplifier  Semiconductors, variable  3
Float switch, change-over contact (2-path)  Switch, change-over contact	Stepping motor, general  Stepper motor  4	Heating, 3 connection points  Heating, 3 connection points
Flow switch, change-over contact (3-path), general  Switch, change-over contact	Stepping motor, general  Stepper motor  4	Electromechanical operating device of an overload (thermal relay)  Overload, variable
Switch, change-over contact (2-path), operated by key  Switch, change-over contact	AC motor, with two directions of rotation (control valves)  AC motor, two directions	Fuse circuit-breaker, two-pole, form 2  Fused disconnect, double













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Symbol description: Auto transformer, 3-phase, star connection  Function definition: Transformer, 6 connection points  connecting points: 6	AC motor, without PE, with straight connection points  Single-coil motor without PE  2	Switch, NO contact, reacts to speed or rotational speed (centrifugal switch)  Switch, NO contact
Auto transformer, 3-phase + PE, start connection  Transformer, 7 connection points with PE	DC motor, general, with straight connection points  Single-coil motor without PE	Switch, NC contact, reacts to speed or rotational speed (centrifugal switch)  Switch, NC contact
Circuit breaker, four-pole  Quadruple circuit-breaker	DC motor, general, with straight connection points  Single-coil motor without PE	Switch, NO contact, operation by pulling (pull switch, pull cord switch)  Switch, NO contact
Power circuit breaker / motor overload switch with switch mechanism and without line Motor overload switch, four-pole	AC motor, ventilator / fan  Single-coil motor without PE  2	Switch, NC contact, operation by pulling (pull switch, pull cord switch)  Switch, NC contact  2
Power circuit breaker / motor overload switch with switch mechanism and line  Motor overload switch, four-pole  8	Protective circuiting of a coil through an avalanche diode  Protective circuit, diode	Switch, NC contact, emergency pull wire switch, pull cord switch  Switch, NC contact
Power circuit breaker / motor overload switch with switch mechanism and magnetic release without line (three-pole) Motor overload switch three-pole	Protective circuiting of a coil through a suppressor diode  Protective circuit, diode	Switch, NO contact, actuated by proximity of magnet  Switch, NO contact
DC motor, ventilator / fan Single-coil motor without PE 2	Protective circuiting of a coil through a diode  Protective circuit, diode	Switch, NO contact, mechanically operated  Switch, NO contact
PE connection point for motor  PE device connection point  1	Protective circuiting of a coil through a combination of diode, LED and resistor  Protective circuit, diode	Switch, NO contact, mechanically operated  Switch, NO contact













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Symbol description: Limit switch, NO contact  Function definition: Limit switch, NO contact  connecting points: 2	Isolating terminal with saddle jumper connections, 2 targets, closed  Terminal with saddle jumper, 2 connection points	Electromechanical operating device of an interlock relay  Coil, general, 3 connection points
Limit switch, NC contact  Limit switch, NC contact	Isolating terminal, switching terminal  Terminal, general, 2 connection points  L	Electromechanical operating device of an interlock relay  Coil, general, 4 connection points
Switch, NO contact, operation by turning, 3 switching positions  Switch, NO contact  F	Isolating terminal, 2 targets, closed  Terminal, general, 2 connection points	Electronic NO power contact (contactor semiconductor contact)  Power NO contact
Switch, NC contact, operation by turning, 3 switching positions  Switch, NC contact  F	Isolating terminal, 2 targets, opened  Terminal, general, 2 connection points	Electronic NC power contact (contactor semiconductor contact)  Power NC contact
Switch, NO contact, operation by turning, 4 switching positions  Switch, NO contact  F	Electro-mechanical drive  Coil, general, 3 connection points	Electronic NO contact (semiconductor contact)  NO auxiliary contact
Switch, NC contact, operation by turning, 4 switching positions  Switch, NC contact  F	Electro-mechanical drive  Coil, general, 4 connection points	Electronic NC contact (semiconductor contact)  NC auxiliary contact
Switch, NO contact (single contact for an N-position switch)  Switch, NO contact	Electromechanical operating device of a latching relay  Coil, general, 3 connection points	Semiconductor contact / Electronic switch (NPN)  NO auxiliary contact
Switch, NC contact (single contact for an N-position switch)  Switch, NC contact	Electromechanical operating device of a latching relay  Coil, general, 4 connection points	Semiconductor contact / Electronic switch (PNP)  NO auxiliary contact









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Symbol overview lee cibrary	الم	
Symbol description: Mirror contact (auxiliary NC contact for the main power NO contacts)  Function definition: NC auxiliary contact  connecting points: 2	Reactive consumption counter (scaled version)  Measuring instrument, 2 connection points  2	LV HBC fuse switch disconnector, single-line, general  Fused disconnect, single  T
Rotary switch, NO contact, with push button for opening  Switch, NO contact	Watt-hour meter with maximum indication / maximum demand meter (scaled version)  Measuring instrument, 2 connection points  Wh Pmax  2	LV HBC fuse switch disconnector, three-pole, general  Fused disconnect, triple  T  T  T
Female receptacle without PE, two-pole  Female receptacle without PE, 2 connection points	Rotary switch, NC contact, with push button for loosening  Switch, NO contact  2	Fuse switch disconnector, three-pole  Fused disconnect, triple
Plug, two-pole  Plug without PE, 2 connection points	Fused disconnect switch, single-line, with double break point  Fused disconnect, single	Lightning current arrester  Protective circuit
Operating hours counter (scaled version)  Measuring instrument, 2 connection points  h	Fuse switch disconnector, single-pole, with double-break  Fused disconnect, single	Fuse switch disconnector, two-pole  Fused disconnect, double
Counter, variable (scaled version)  Measuring instrument, 2 connection points	Fused disconnect switch, three-line, with double break point  Fused disconnect, triple	Limiter without thermal contacts with switch mechanism and line  Motor overload switch three-pole  6
Ampere hour meter (scaled version)  Measuring instrument, 2 connection points  Ah	Fuse switch disconnector, three-pole, with double-break, separately switchable  Fused disconnect, triple  6	Three-phase transformer, delta-delta connection  Transformer, 6 connection points
Watt-hour meter / electricity meter (scaled version)  Measuring instrument, 2 connection points  Wh	Fuse switch disconnector, three-pole, separately switchable  Fused disconnect, triple	Three-phase transformer, delta-delta connection  Transformer, 7 connection points with PE









Symbol description: power circuit breaker / motor overload switch with switch mechanism, thermal release, with line Motor overload switch three-pole connecting points: 6	Priority control for NC contact, right	Switch, change-over contact (2-path), operated by pressing  Switch, change-over contact  E
Change-over contact (3-path), momentary contact, contact make on actuation (right)  Change-over contact, momentary contact make, right	Priority control for NC contact, left	Switch, change-over contact (2-path), operated by key  Switch, change-over contact
Change-over contact (3-path), momentary contact, contact make on release (left)  Change-over contact, momentary contact make, left	Priority control, adaptor —— 0	Switch, change-over contact (2-path), operated by key  Switch, change-over contact
Change-over contact (3-path), momentary contact on actuation and release (right and left) Change-over contact, momentary contact make, right and left	Switch, change-over contact (2-path), operating element general  Switch, change-over contact	Switch, change-over contact (2-path), roller operation  Switch, change-over contact
Change-over contact (3-path), closes leading against other contacts of the contact set Change-over contact, leading	Switch, change-over contact (2-path), operating element general  Switch, change-over contact	Switch, change-over contact (2-path), cam-operated  Switch, change-over contact
Change-over contact (3-path), closes lagging against other contacts of the contact set Change-over contact, late break	Switch, change-over contact (2-path), operated by turning  Switch, change-over contact	Switch, change-over contact (2-path), operated by pedal  Switch, change-over contact   3
Positive operation with NO contact, right	Switch, change-over contact (2-path), operated by turning  Switch, change-over contact	Switch, change-over contact (2-path), operated by mushroom head  Switch, change-over contact
Priority control for NO contact, left	Switch, change-over contact (2-path), operated by pressing  Switch, change-over contact  E	Switch, change-over contact (2-path), camand roller-operated  Switch, change-over contact









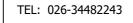
Symbol overview lee Library		
Symbol description: Switch, change-over contact (2-path), operated by electric clock  Function definition: Switch, change-over contact  connecting points: 3	Switch, change-over contact (2-path), operated by approach of iron  Switch, change-over contact  Fe	Miniature circuit-breaker, two-pole  Safety switch, two-pole  4
Switch, change-over contact (2-path), operated by pulling  Switch, change-over contact  3	Limit switch, change-over contact (2-path)  Limit switch, change-over contact	Miniature circuit-breaker, three-pole  Safety switch, three-pole
Switch, change-over contact (2-path), reacts to speed or rotational speed (centrifugal switch) Switch, change-over contact	Change-over contact (2-path), closes leading against other contacts of the contact set Change-over contact, leading	Miniature circuit-breaker, four-pole  Safety switch, four-pole
Switch, change-over contact (2-path), operated by lever  Switch, change-over contact  3	Change-over contact (2-path), closes lagging against other contacts of the contact set Change-over contact, late break	Miniature circuit-breaker, two-pole (1P+N)  Safety switch, two-pole  4
Switch, change-over contact (2-path), change-over contact with action line for extension Switch, change-over contact	Change-over contact without break point, sequential change-over element (2-path)  Change-over contact, leading and late break	Miniature circuit-breaker, four-pole (3P+N)  Safety switch, four-pole  8
Switch, change-over contact (2-path), touch-sensitive  Switch, change-over contact	Power circuit breaker, single-pole, actuation by thermal or electromagnetic overload, with line for auxiliary contact Circuit breaker	Miniature circuit-breaker, two-pole, form 2  Safety switch, two-pole  4
Proximity switch, change-over contact (2-path)  Switch, change-over contact	Circuit breaker, four-pole, with line for auxiliary contact  Quadruple circuit-breaker	Miniature circuit-breaker, two-pole (1P+N), form 2  Safety switch, two-pole  4
Switch, change-over contact (2-path), proximity-sensitive, actuated by proximity of magnet Switch, change-over contact	Miniature circuit-breaker, single-pole  Safety switch, single-pole  2	Circuit breaker, two-pole, form 2  Double circuit breaker  4











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Symbol description: Circuit breaker, two-pole, with line for auxiliary contact, form 2  Function definition: Double circuit breaker  connecting points: 4	Terminal with 2 connection points (1 x graphical line)  Terminal, general, with saddle jumper, 2 deconnection points	Terminal with plug-in connection, 2 connection points (male pin / direct connection point) Terminal, general, with saddle jumper, 2 connection points
Ground fault current circuit-breaker with switch mechanism without auxiliary line, 2-pole (single-pole protected, 2-pole switching)ult current circuit breaker, two-pole	Terminal with 3 connection points (3 x graphical line)  Terminal, general, with saddle jumper, 2 connection points	Terminal with saddle jumper connections, 2 connection points (female pin and direct connection point) Terminal, general, with saddle jumper, 2 connection points  4
Ground fault current circuit-breaker with switch mechanism without auxiliary line, 4-pole (3-pole protected, 4-pole switching) Ground fault current circuit breaker, four-pole  8	Terminal with 3 connection points (1 x graphical line)  Terminal, general, with saddle jumper, 2 connection points	Terminal with saddle jumper connections, 2 connection points (male pin and direct connection point)  Terminal, general, with saddle jumper, 2 connection points
Starter general, motor starter  Controller, variable	Terminal with 4 connection points (4 x graphical line)  Terminal, general, with saddle jumper, 2	Terminal with plug-in connection, 3 connection points (female pin / direct connection point) Terminal, general, with saddle jumper, 3 connection points
Starter, direct line, without reverse motion  Controller, variable	Terminal with 4 connection points (1 x graphical line)  Terminal, general, with saddle jumper, 2 d connection points	Terminal with push-in fitting, 4 connection points (2 female pins / direct connection point) Terminal, general, with saddle jumper, 4 connection points
Starter, direct line, with reverse motion  Controller, variable	Terminal with saddle jumper connections, 2 connection points (male pin and female pin)  Terminal, general, with saddle jumper, 2 connection points	Terminal with saddle jumper connections, 4 connection points (2 female pins and direct connection point) Terminal, general, with saddle jumper, 4 connection points
Starter for star-delta connection  Controller, variable	Terminal with plug-in connection, 2 connection points (male pin / female pin)  Terminal, general, with saddle jumper, 2 connection points	Terminal with saddle jumper connections, 3 connection points (female pin and direct connection point) Terminal, general, with saddle jumper, 3 connection points
Terminal with 2 connection points (2 x graphical line)  Terminal, general, with saddle jumper, 2 connection points	Terminal with plug-in connection, 2 connection points (female pin / direct connection point) Terminal, general, with saddle jumper, 2 connection points	Terminal with plug-in connection, 3 connection points (female pin / direct connection point) Terminal, general, with saddle jumper, 3 connection points









Symbol description: Isolating terminal, closed, form 2  Function definition: Isolating terminal, 2 connection points  connecting points: 2	Female pin with plug (scaled version)  Male and female pin	Switch, change-over contact (2-path), operated by key  Switch, change-over contact
Pressure switch, change-over contact (3-path)  Switch, change-over contact	Resistor with movable contact  Resistor, single	Power-operated mechanism, general, change-over contact, two-path  Switch, change-over contact
Float switch, change-over contact (3-path)  Switch, change-over contact	Resistor with movable contact / potentiometer Resistor, 3 connection points	AC motor with thermal monitoring  Motor with PE, variable
Flow switch, change-over contact (3-path), general  Switch, change-over contact	Resistor with movable contact and "Off" position Resistor, single	AC motor with thermal cut-out  Motor with PE, variable
Female pin of a coaxial plug connection connection with direct connection point  SH female pin, 2 connection points	Resistor, adjustable, with movable contact / potentiometer, adjustable Resistor, 3 connection points	Three-phase asynchronous motor with thermal cut-out, one rotation speed, one speed Motor with PE, variable
Plug of a coaxial plug connection connection with direct connection point  SH male pin, 2 connection points	Temperature switch, change-over contact (2-path)  Switch, change-over contact	Three-phase induction motor with thermal cut-out, two rotation speeds, pole-change, one winding Motor with PE, variable
Lamp / indicator light, with lamp test function  Lamp, 3 connection points	Float switch, change-over contact (2-path)  Switch, change-over contact	Three-phase induction motor with thermal cut-out, three rotation speeds, pole-change, two separate windings Motor with PE, variable
Cam-switch device, change-over contact (3-path)  Limit switch, change-over contact	Flow switch, change-over contact (3-path), general  Switch, change-over contact	Terminal / distributed terminal with 4 connection points (without graphical line)  Terminal, general, with saddle jumper, 4 O connection points













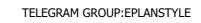
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nbol description: Terminal / distributed terminal with 4 connection points (1 x graphical line)	Terminal with one connection point and 2 saddle jumper connections	Terminal with 4 connection points and 2 saddle jumper connections
tion definition: Terminal, general, with saddle jumper, 4 connection points	Terminal, general, with saddle jumper, 1 Connection point	Terminal, general, with saddle jumper, 4 connection points
necting points: 4	3	6
Terminal / distributed terminal with 3 connection points (1 x graphical line)	Terminal with 2 connection points without saddle jumper connections	Terminal with 4 connection points without saddle jumper connections
Terminal, general, with saddle jumper, 4 connection points	Terminal, general, 2 connection points	Terminal, general, 4 connection points $\Diamond - \Diamond - \Diamond$
3	2	4
Terminal / distributed terminal with 2 connection points (1 x graphical line)	Terminal with 2 connection points and 2 saddle jumper connections	Terminal with 4 connection points and 2 saddle jumper connections
Terminal, general, with saddle jumper, 4 connection points	Terminal, general, with saddle jumper, 2 connection points	Terminal, general, with saddle jumper, 4 Connection points
2	4	6
Terminal / distributed terminal with one connection point $(1 \times graphical line)$	Terminal with 2 connection points and 2 saddle jumper connections	Terminal with 4 connection points and 2 saddle jumper connections
Terminal, general, with saddle jumper, 4 connection points	Terminal, general, with saddle jumper, 2 Connection points	Terminal, general, with saddle jumper, 4 Connection points
1	4	6
Current transformer (path 1), 4 connection points	Terminal with 3 connection points without saddle jumper connections	Terminal with 6 connection points without saddle jumper connections
Measuring transducer, current, variable	Terminal, general, 3 connection points $\Diamond - \Diamond$	Terminal, general, 6 connection points $\Diamond - \Diamond - \Diamond$
4	3	6
Current transformer (path 2), 4 connection points	Terminal with 3 connection points and 2 saddle jumper connections	Terminal with 6 connection points and 2 saddle jumper connections
Measuring transducer, current, variable	Terminal, general, with saddle jumper, 3 connection points	Terminal, general, with saddle jumper, 6 connection points
4	5	8
Current transformer (path 3), 4 connection points	Terminal with 3 connection points and 2 saddle jumper connections	Terminal with 6 connection points without saddle jumper connections
Measuring transducer, current, variable	Terminal, general, with saddle jumper, 3	Terminal, general, 6 connection points
4	connection points 5	6
Terminal with one connection point without saddle jumper connections	Terminal with 4 connection points without saddle jumper connections	Terminal with 6 connection points and 2 saddle jumper connections
Terminal, general, 1 connection point	Terminal, general, 4 connection points	Terminal, general, with saddle jumper, 6
1	4	connection points 8









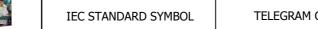
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Symbol overview lee Library		
Symbol description: Terminal with 6 connection points and 2 saddle jumper connections  Function definition: Terminal, general, with saddle jumper, 6 connection points  connecting points: 8	Light barrier with plug-in connection  Light barrier, NO contact	Photoelectric switch, change-over contact  Light barrier, variable
Terminal with 8 connection points without saddle jumper connections  Terminal, general, 8 connection points  4	Light barrier, transmitter, AC supply, with plug-in connection Light barrier, transmitter	Photoelectric switch, change-over contact, with plug-in connection  Light barrier, variable
Terminal with 8 connection points and 2 saddle jumper connections  Terminal, general, with saddle jumper, 8 connection points	Light barrier, transmitter, DC supply, with plug-in connection  Light barrier, transmitter	Three-phase transformer, delta-star connection  Transformer, 7 connection points with PE  7
Terminal with 8 connection points without saddle jumper connections  Terminal, general, 8 connection points	Light barrier, receiver, DC supply, with plug-in connection  Light barrier, NO contact with power supply	Pressure switch, change-over contact (2-path)  Switch, change-over contact
Terminal with 8 connection points and 2 saddle jumper connections  Terminal, general, with saddle jumper, 8 connection points	Light barrier, receiver, AC supply, with plug-in connection  Light barrier, variable	Current transformer (path 1), 2 connection points  Measuring transducer, current, variable
Terminal with 8 connection points and 2 saddle jumper connections  Terminal, general, with saddle jumper, 8 Connection points	Ultrasonic sensor, NO contact, with plug-in connection  Proximity switch, NO contact with power supply  3	Current transformer (path 2), 2 connection points  Measuring transducer, current, variable
Proximity sensor, NO contact, with plug-in connection  Proximity switch, NO contact	Ultrasonic sensor, NC contact, with plug-in connection  Proximity switch, NC contact with power supply  3	Current transformer (path 3), 2 connection points  Measuring transducer, current, variable
Proximity sensor, NC contact, with plug-in connection  Proximity switch, NC contact	Enclosure light with female receptacle  Light, variable	Actuator motor  Three-phase motor  4











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Symbol description: Photoelectric switch, NC contact  Function definition: Light barrier, NC contact with power supply  connecting points: 3	Electromechanical operating device of an overvoltage release  Overvoltage release	Emergency stop switch / Emergency stop pushbutton, change-over contact (2-path), with pull-to-reset Pushbutton, change-over contact
Female receptacle, five-pole (CEE)  Female receptacle with PE, 5 connection points  5	Electromechanical operating device of an undervoltage release  Undervoltage release  2	Terminal with 5 connection points without saddle jumper connections  Terminal, general, 5 connection points  \$\delta - \docsymbol{\phi} - \docsymbol{\phi}\$
Solenoid brake, three-wire  Brake, 3 connection points, without PE	Fused switch, three-pole  Fused disconnect, triple	Terminal with 5 connection points and 2 saddle jumper connections  Terminal, general, with saddle jumper, 5 connection points
Female receptacle with PE, three-pole  Female receptacle with PE, 3 connection points	Solenoid valve, PE connection point  PE device connection point  1	Terminal with 5 connection points without saddle jumper connections  Terminal, general, 5 connection points
Series motor, DC  Single-coil motor without PE  2	Three-phase induction motor, star-delta connection  Motor with PE, variable  7	Terminal with 5 connection points and 2 saddle jumper connections  Terminal, general, with saddle jumper, 5 connection points
Three-phase asynchronous motor, two separate windings, change-pole, two rotation speeds Motor with PE, variable	Three-phase induction motor, two rotation speeds, pole-change, one winding  Motor with PE, variable	Terminal with 5 connection points and 2 saddle jumper connections  Terminal, general, with saddle jumper, 5
Three-phase asynchronous motor, two separate windings, change-pole, three rotation speeds Motor with PE, variable  10	Three-phase induction motor, two rotation speeds, pole-change, two separate windings  Motor with PE, variable  7	Terminal with 7 connection points without saddle jumper connections  Terminal, general, 7 connection points        7
Enclosure light with female receptacle  Light, 3 connection points	Emergency stop switch / Emergency stop pushbutton, change-over contact (3-path), with turn-to-reset Pushbutton, change-over contact	Terminal with 7 connection points and 2 saddle jumper connections  Terminal, general, with saddle jumper, 7 connection points











## Symbol overview IEC Library



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7	<b>U</b>			
Symbol description: Terminal with 7 connection points without saddle jumper connections	Operated by turning		Operation by electrical clock	
function definition: Terminal, general, 7 connection points	Others, variable	F-	Others, variable	<u> </u>
onnecting points: 7	0		0	
Terminal with 7 connection points and 2 saddle jumper connections	Operation by turning, with catch		Operation by key	
Terminal, general, with saddle jumper, 7	Others, variable	F∼	Others, variable	<u>8</u> -
9	0		0	
Terminal with 7 connection points and 2 saddle jumper connections	Operation by pressing		Operation, general (for NFPA)	
Terminal, general, with saddle jumper, 7	Others, variable	E	Others, variable	<b>+</b>
9	0		0	
Terminal with 9 connection points without saddle jumper connections	Operation by pressing, with catch		Tripping device	
Terminal, general, 9 connection points	Others, variable	E∼	Others, variable	<b>#</b>
9	0		0	
Terminal with 9 connection points and 2 saddle jumper connections	Operation by pulling		Operation by pulling, with catch	
Terminal, general, with saddle jumper, 9 connection points	Others, variable	3	Others, variable	}~-
11	0		0	
Forced operation	Operation by crank		Operation by key, with catch	
Others, variable	Others, variable	1-	Others, variable	8~-
0	0		0	
Operation by hand, general	Operation by detachable grip		Operation by pressing (mushroom)	
Others, variable	Others, variable	<b>◇</b>	Others, variable	(
0	0		0	
Operation by hand, general, with catch	Operation by electrical motor		Operation by pressing (mushroom), with catch	
Others, variable	Others, variable	M	Others, variable	( <del>-</del> ~
0	0		0	









Symbol Overview lee Library		
Symbol description: Operation, thermal (temperature switch)  Function definition: Others, variable  connecting points: 0	Switch disconnector, three-pole, with automatic actuation by built-in measuring relay Safety switch, three-pole  6	Power circuit breaker, single-pole (magnetic actuation)  Safety switch, single-pole
Operation by pressing (mushroom), with release Others, variable	Switch disconnector, four-pole, with automatic actuation by built-in measuring relay Safety switch, four-pole  8	Power circuit breaker, single-pole, pluggable connection (magnetic actuation)  Safety switch, single-pole
Switch, three-pole $-\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Switch, triple NO contact $-\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Power circuit breaker, three-pole (pluggable connection)  Switch, triple NO contact	Power circuit breaker, single-pole (L-, I-characteristic)  Safety switch, single-pole
Switch four-pole $-\frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Switch, quadruple NO contact $-\frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 8	Power circuit breaker, four-pole (pluggable connection)  Switch, quadruple NO contact	Power circuit breaker, single-pole, pluggable connection (L-, I-characteristic)  Safety switch, single-pole
Power circuit breaker, three-pole Switch, triple NO contact $-\frac{1}{4} - \frac{1}{4} - \frac{1}{4}$	Power circuit breaker, three-pole (magnetic actuation)  Safety switch, three-pole  6	Power circuit breaker, two-pole (magnetic actuation)  Safety switch, two-pole  4
Power circuit breaker, four-pole  Switch, quadruple NO contact $-\frac{x}{4} - \frac{x}{4} - \frac{x}{4} - \frac{x}{4}$ 8	Power circuit breaker, three-pole (L-, I-characteristic) Safety switch, three-pole  6	Power circuit breaker, two-pole, pluggable connection (magnetic actuation)  Safety switch, two-pole  4
Switch disconnector, three-pole $-\frac{1}{2} - \frac{1}{2} - \frac$	Power circuit breaker / motor overload switch with switch mechanism and line  Motor overload switch one-pole	Power circuit breaker, two-pole (L-, I-characteristic)  Safety switch, two-pole  4
Switch disconnector, four-pole Switch, quadruple NO contact $-\frac{1}{7} - \frac{1}{7} - 1$	Power circuit breaker / motor overload switch with switch mechanism and line  Motor overload switch, two-pole  4	Power circuit breaker, two-pole, pluggable connection (L-, I-characteristic)  Safety switch, two-pole  4

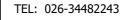








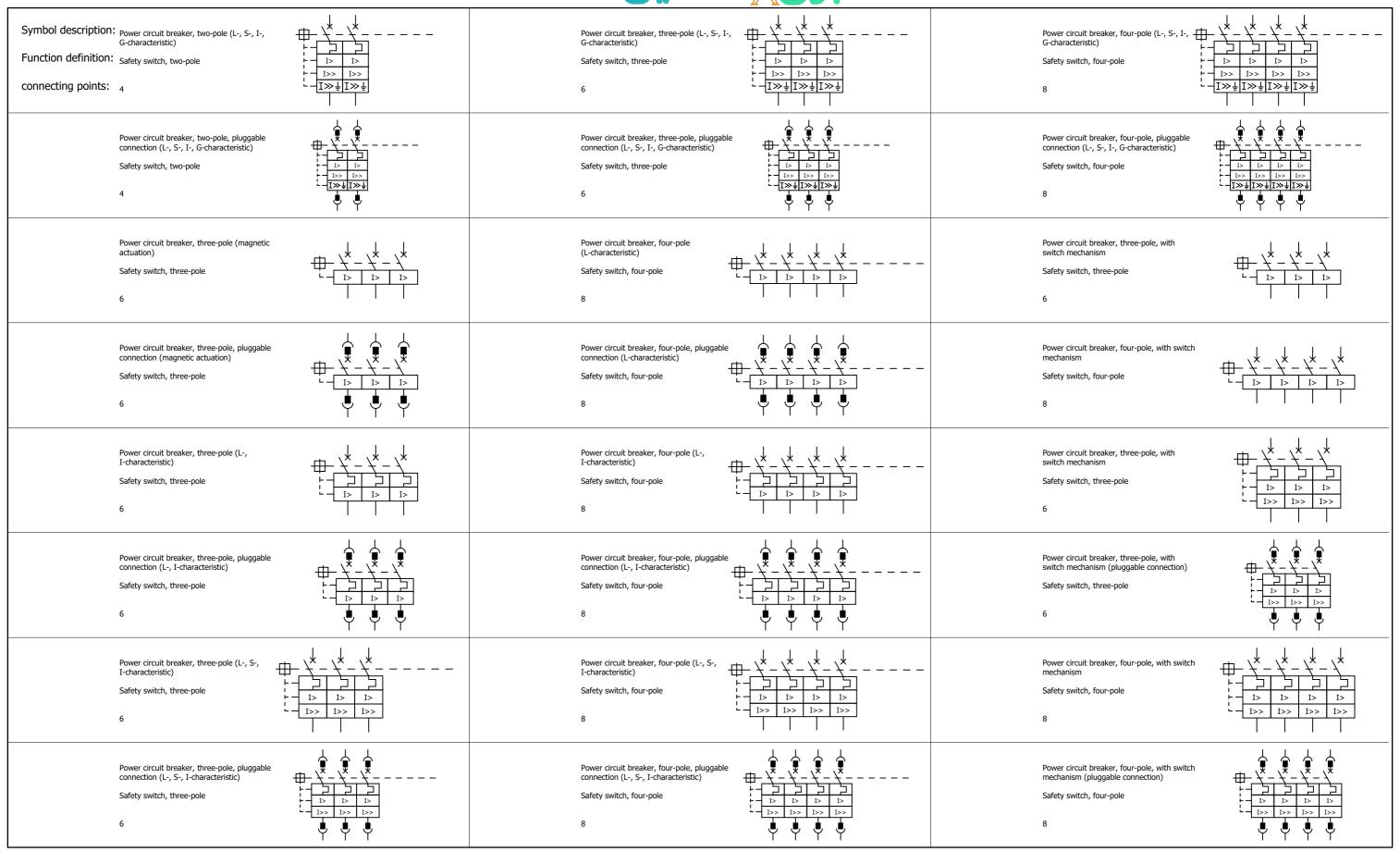




### Symbol overview IEC Library



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IEC STANDARD SYMBOL









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Symbol overview lee Library		
Symbol description: Power circuit breaker, four-pole, pluggable connection (L-characteristic)  Function definition: Safety switch, four-pole  connecting points: 8	Switch, four-pole, with leading NO contact for neutral conductor connection  Switch, quadruple NO contact $-\frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Operation through pneumatic / hydraulic force Others, variable
Power circuit breaker, four-pole (L-, I-characteristic)  Safety switch, four-pole  8	Change-over contact (3-path), mid-position "Off"  Change-over auxiliary contact	DC compound generator with series and shunt winding  Generator, 2 connection points
Power circuit breaker, four-pole, pluggable connection (L-, I-characteristic)  Safety switch, four-pole  8	Pushbutton, change-over contact (3-path), mid-position "Off", operation by turning  Pushbutton, change-over contact  F	Three-phase generator, general
Power circuit breaker, three-pole, pluggable connection (magnetic actuation)  Safety switch, three-pole  6	Manual operation with limited access  Others, variable  0	Three-phase synchronous generator with permanent magnetic excitation  Generator, variable  3
Power circuit breaker, three-pole, pluggable connection (L-, I-characteristic)  Safety switch, three-pole  6	Operation through handwheel  Others, variable  0	Three-phase synchronous generator with separate excitation, star connection, neutral conductor provided Generator, variable
Rotary switch, two-pole, NO contact, form 2	Operation through speed  Others, variable  V	Three-phase synchronous generator, both ends of each and every winding provided  Generator, variable
Antenna, general  Antenna  1	Operation through rotary speed  Others, variable	DC motor for ventilator / fan  DC motor in protective housing
Ferrite ring, ferrite bead on a conductor  Inductor, single	Operation through light  Others, variable	AC motor for ventilator / fan without grounding  AC motor in protective housing







Symbol description: Single-phase transformer with two windings each on the primary and secondary side  Function definition: Transformer, variable  connecting points: 8	Three-phase transformer, delta-star connection (secondary side with neutral conductor) Transformer with PE, variable	Pressure sensor, NO contact  Digital sensor, NO contact with power supply  3
Three-phase transformer, wye-wye connection, adjustable at secondary side  Transformer, 6 connection points	Fused switch disconnector, two-pole, with double interruption  Fused disconnect, double	Pressure sensor, NC contact  Digital sensor, NC contact with power supply  3
Three-phase transformer, wye-wye connection, adjustable at secondary side  Transformer, 7 connection points with PE	Fused switch disconnector, three-pole, with double interruption  Fused disconnect, triple  6	Pressure sensor, NO contact, with plug-in connections  Digital sensor, NO contact with power supply  3
Three-phase transformer, delta-star connection, adjustable at secondary side  Transformer, 6 connection points	Fuse circuit-breaker, four-pole, with integrated disconnect switch for neutral conductor connection Fused disconnect, quadruple	Pressure sensor, NC contact, with plug-in connection  Digital sensor, NC contact with power supply  3
Three-phase transformer, delta-star connection, adjustable at secondary side  Transformer, 7 connection points with PE	Disconnect switch, three-pole Switch, triple NO contact $-\frac{\bot}{\bot} - \frac{\bot}{\bot} - \frac{\bot}{\bot}$	Power disconnect switch with thermal and electromagnetic overload, single-pole  Safety switch, single-pole
Three-phase transformer, delta-star connection (secondary side with neutral conductor) Transformer with PE, variable	Disconnect switch, four-pole Switch, quadruple NO contact $-\frac{1}{7}-\frac{1}{7}-\frac{1}{7}-\frac{1}{7}$	Power disconnect switch with thermal and electromagnetic overload, two-pole  Safety switch, two-pole  4
Synchronous motor, one-phase  MS  1~  5	NO contact, 2-fold, power contact of a contactor  Duplicate NO contact $ \begin{pmatrix} \mathbf{d} & \mathbf{d} \\ \mathbf{d} & \mathbf{d} \end{pmatrix} $	Power disconnect switch with thermal and electromagnetic overload, two-pole with neutral conductor connection Safety switch, two-pole
Synchronous motor, three-phase  MS  Motor with PE, variable	NO contact, 3-fold, power contact of a contactor  Triple NO contact  6	Power disconnect switch with thermal and electromagnetic overload, three-pole  Safety switch, three-pole  6











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Symbol overview the history		
Symbol description: Power disconnect switch with thermal and electromagnetic overload, two-pole, form 2  Function definition: Safety switch, two-pole  connecting points: 4	Female pin with plug 03-03-05  Male and female pin	Three-phase transformer, wye-wye connection  Transformer, 6 connection points
Power disconnect switch with thermal and electromagnetic overload, two-pole with neutral conductor connection, form 2 Safety switch, two-pole	Fused terminal  Terminal, 2 connection points	Three-phase induction motor, pole-change, 6 connection points  Motor, variable  6
Microphone Signal device, acoustic, single	Wire Number Location (placeholder)  Fused terminal, 2 targets (do not use anymore)  0	Low-voltage high-breaking-capacity fuse (l.v. h.b.c.) (placeholder)  Others, variable
Loudspeaker  Signal device, acoustic, single	Single-phase transformer  Transformer, 4 connection points  4	Female receptacle (placeholder)  Device connection point, variable
Loudspeaker - microphone  Signal device, acoustic, single	Potentiometer  Resistor, 3 connection points  3	Low-voltage high-breaking-capacity fuse (l.v. h.b.c.) (placeholder)  Others, variable
Intercom station  Signal device, acoustic, single	Three-phase transformer, star connection  Transformer, 6 connection points	Switch disconnector, cam switch three-pole (placeholder) Others, variable
Change-over contact hook, universal (placeholder)  Change-over contact hook, NO contact (two-path) (do not use anymore)	Capacitor, old Capacitor, variable	Switch disconnector, cam switch single-pole (placeholder) Others, variable
Remanent relay, 3 connection points  Remanent relay, 3 connection points	Single-phase transformer with two windings  Transformer, 4 connection points  4	Thyristor  Semiconductors, 3 connection points













Symbol overview ILC Library		
Symbol description: Power source  Function definition: Voltage source, variable  connecting points: 2	Three-phase motor with slipring rotor 06-08-03  Motor, variable	Miniature circuit breaker, two-pole (placeholder)  Others, variable
Counter 08-05-01  Measuring instrument, 2 connection points	Three-phase induction motor, delta / 2 x star  Motor, variable  6	Plug three-pole (placeholder) Others, variable
Earth-isolating terminal  Isolating terminal, variable	Three-phase induction motor with PTC thermistor  Motor, variable	Power circuit breaker (placeholder)  Others, variable
Miniature circuit breaker, single-pole (placeholder)  Others, variable	Three-phase current drive, 9 connection points, center  Motor, variable  3	Switch disconnector with automatic actuation by built-in release 07-13-09 (placeholder) Others, variable
Motor with PTC thermistor  Motor with PE, variable  6	Three-phase current drive, 9 connection points, left  Motor, variable	Disconnect switch 07-13-06 (placeholder)  Others, variable
Three-phase current drive, 9 connection points, center  Motor, variable	Three-phase current drive, 9 connection points, right  Motor, variable	Switch disconnector, cam switch two-pole for transformer 07-13-08 (placeholder)  Others, variable
Valve coil, general 02-13-23  Valve, single	Bridge Rectifier (placeholder)  Resistor, variable	Potentiometer  Resistor, 3 connection points
Current transformer (path 1) 06-13-03  Converter, variable	Metering Shunt (placeholder)  Resistor, single	Rheostat  Resistor, 3 connection points









## Symbol overview IEC Library



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Symbol description: Field winding for DC motor 04-03-01  Function definition: Field  connecting points: 2	Miniature circuit breaker three-pole, with line for auxiliary contact (placeholder)  Others, variable	PE connection point for motor  PE device connection point  1
Potentiometer  Resistor, 3 connection points  3	LED  Lamp, single	Three-phase bridge circuit  Rectifier, variable
Rheostat  Resistor, 3 connection points  3	Pneumatic luminaire with lamp test  Lamp, 3 connection points	Transformer, 2-phase  Transformer, 4 connection points  S
Miniature circuit breaker, three-pole 107-05-08 (placeholder) Others, variable	Ventilator  Single-coil motor without PE  2	Transformer, 3-phase, wye-wye connection (placeholder)  Transformer, 6 connection points
Measuring resistor  Resistor, variable	Enclosure light with female receptacle  Light, variable	Transformer with center tap on one winding (placeholder)  Transformer, 4 connection points
Ventilator Single-coil motor without PE  2	Flourescent Light with Receptacle (placeholder) Light, variable	Isolating terminal, closed 03-03-17  Isolating terminal, variable
Slipring transformer (placeholder)  Others, variable	Enclosure light (placeholder)  Others, variable	Current transformer (path 2)  Converter, variable
Laboratory resistor  Resistor, variable	Enclosure light  Light, 2 connection points	Current transformer (path 3)  Converter, variable











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ymbol everview lee Elbrary		
Symbol description: Operated by turning 02-13-04 (placeholder)  Function definition: Others, variable  Connecting points: 0	3-phase line reactor for NC devices  Inductor, variable	Resistor with fixed tappings  Resistor, variable
N-position switch, through position  Switch, NC contact	Three-phase transformer, delta-star connection  Transformer, 6 connection points	Diode terminal  Terminal, variable
Position switch open  Switch, NO contact  1  2	Three-phase transformer, delta-star connection (placeholder)  Transformer, 6 connection points	Isolated ground receptacle CEE 5-pole 111-07-03 (placeholder) Others, variable
Female pin with plug without cross-reference 03-03-05 Others, variable	Three-phase transformer, star-delta connection (placeholder)  Transformer, 6 connection points	Three-phase induction motor, pole-change 9 connection points, with PTC thermistor  Motor, variable
Female pin without cross-reference  Female pin, 2 connection points	Potential transformer (placeholder)  Others, variable	Resistor with separate current and voltage connections  Resistor, variable
Pin without cross-reference  Male pin, 2 connection points	Primary cell, primary element, battery 06-15-01  Voltage source, variable	Terminal with 4 connection points  Terminal, variable
Female pin without cross-reference  Female pin, 2 connection points	Potentiometer  Resistor, 3 connection points  3	Capacitor, feedthrough capacitor 04-02-03  Capacitor, 3 connection points
Pin without cross-reference  Male pin, 2 connection points	Auxiliary terminal for cable generation 03-02-02 Others, variable	Mushroom, emergency stop pushbutton, NC contact, with forced operation and locking  Pushbutton with latching position, NC









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5 y 1112 51 51 51 51 51 51 51 51 51 51 51 51 51		
Symbol description: Adjustment switch, NO contact, with spring return  Function definition: Switch, NO contact  connecting points: 2	Rectifier, two-phase  Rectifier, variable  4	Diode terminal  Diode component / multipath terminal, 2 targets (do not use anymore)
Pushbutton, change-over contact, locking  Switch, change-over contact	Three-phase motor, one speed  Three-phase motor  4	Actuator motor  Three-phase motor  4
Mushroom switch, change-over contact, locking, with key Pushbutton, change-over contact	Three-phase induction motor, pole-change, 9 connection points  Motor, variable	Earth-isolating terminal  Isolating terminal, variable
Isolating terminal  Isolating terminal, 2 connection points	Undervoltage release, connections at top  Undervoltage release	Fused switch, two-pole 07-21-01 (2x) + 07-07-04 (2x)  Fused disconnect, double
Terminal, half filled  Terminal, general (do not use anymore)	Fluorescent lamp 111-07-12  Light, variable	Limiter, three-pole (placeholder)  Others, variable
Terminal, filled  Terminal, general (do not use anymore)	Delta connection of capacitors (placeholder)  Others, variable	Auto transformer, single-phase  Transformer, 4 connection points
Position switch, 3-position  Switch, variable	Star connection of capacitors  Capacitor, 3 connection points	Power circuit breaker with motor drive 07-13-05+02-13-26 (placeholder) Others, variable
Transformer with center tap on one winding (placeholder)  Transformer, 5 connection points without PE  0	Solenoid valve with PE  Valve, 3 connection points, with PE	Change-over contact, left  Change-over contact (do not use anymore)











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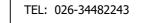
by Hibbi overview ILC Library	<u> </u>	
Symbol description: Change-over contact, left  Function definition: Change-over contact, momentary contact make, right  connecting points: 3	NC contact, with delayed opening 07-05-03  Change-over contact, on-delay	NC contact, temperature-dependent 07-09-02  Change-over contact, thermal release
Change-over contact, left  Change-over contact, momentary contact make, left	NC contact, with delayed closing 07-05-04  Change-over contact, off-delay	NC contact with automatic and thermal actuation 07-09-03  Change-over contact, thermal release
Change-over contact, left  Change-over contact (do not use anymore)	NC contact, late break 07-04-03  Change-over contact, late break	NC contact, contactor power contact  Power change-over contact
Change-over contact, left  Change-over contact, momentary contact make, right  3	NC contact, thermal release 07-09-03  Change-over contact, thermal release	Latching relay  Coil, 3 connection points
Change-over contact, left  Change-over contact, momentary contact make, left	Interlock relay, remanent relay 07-15-19  Remanent relay, 3 connection points	NC contact, late break 07-04-03  Change-over contact, late break
Change-over contact hook, universal 11  Change-over contact (do not use anymore)	Multi-function relay  Multi-function relay, 3 connection points  M  3	NC contact, thermal release 07-09-03  Change-over contact, thermal release
Change-over contact hook, universal 11  Change-over contact (do not use anymore)	NC contact without cross-reference 07-02-03 Change-over contact (do not use anymore)	Interlock relay, remanent relay 07-15-19  Remanent relay, 4 connection points
NC contact 07-02-03  Change-over auxiliary contact	NC contact, leading 07-04-04  Change-over contact, leading	Blinking relay  Clock generator, 4 connection points











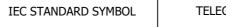


Symbol overview lee Library		
Symbol description: NC contact, leading 07-04-04  Function definition: Change-over contact, leading  connecting points: 3	Temperature switch, NC contact 02-13-20 + 07-02-03  Change-over contact, thermal release	NC contact, temperature-dependent 07-09-02  Change-over contact, thermal release
NC contact, temperature-dependent 07-09-02 Change-over contact, thermal release	NC contact, with delayed opening 07-05-03  Change-over contact, on-delay	NC contact, contactor power contact  Power change-over contact  3
NC contact with automatic and thermal actuation 07-09-03  Change-over contact, thermal release	NC contact, with delayed closing 07-05-04  Change-over contact, off-delay	NC contact 07-02-03  Change-over auxiliary contact
NC contact, contactor power contact  Power change-over contact	NC contact, late break 07-04-03  Change-over contact, late break	NC contact, with delayed opening 07-05-03  Change-over contact, on-delay
Latching relay  Coil, 4 connection points	NC contact, thermal release 07-09-03  Change-over contact, thermal release	NC contact, with delayed closing 07-05-04  Change-over contact, off-delay
Electrothermal overcurrent release, lockout, manually detachable 07-09-03 + 02-12-13  Change-over contact, thermal release	Temperature switch, NC contact 02-13-20 + 07-02-03  Change-over contact, thermal release	NC contact, late break 07-04-03  Change-over contact, late break
Temperature switch, NC contact 02-13-20 + 07-02-03  Change-over contact, thermal release	NC contact without cross-reference 07-02-03  Change-over contact (do not use anymore)	NC contact, thermal release 07-09-03  Change-over contact, thermal release
Electrothermal overcurrent release, lockout, manually detachable 07-09-03 + 02-12-13  Change-over contact, thermal release	NC contact, leading 07-04-04  Change-over contact, leading	Electrothermal overcurrent release, lockout, manually detachable 07-09-03 + 02-12-13  Change-over contact, thermal release











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Symbol over view lee Library		
Symbol description: Temperature switch, NC contact 02-13-20 + 07-02-03  Function definition: Change-over contact, thermal release  connecting points: 3	Position switch, 3-position  Switch, variable  4	Change-over contact with break point (3-path),  Change-over auxiliary contact
NC contact, leading 07-04-04  Change-over contact, leading	Position switch, 6-position  Switch, variable  7	Change-over contact (2-path), with pick-up delay  Change-over contact, on-delay
NC contact, temperature-dependent 07-09-02  Change-over contact, thermal release	Position switch, 4-position  Switch, variable  5	Change-over contact (3-path), with pick-up delay  Change-over contact, on-delay
NC contact, contactor power contact  Power change-over contact	Position switch, 5-position  Switch, variable	Change-over contact (2-path), with drop-out delay  Change-over contact, off-delay
Diode terminal without cross-reference  Terminal, variable  4	Three-phase asynchronous motor  Motor, variable  3	Change-over contact (3-path), with drop-out delay  Change-over contact, off-delay
Three-wire brake  Brake, 3 connection points, without PE	Diode terminal  Terminal, general (do not use anymore)	Change-over contact (2-path), with pick-up and off-delay  Change-over contact, on- and off-delay
Fluorescent lamp Light, variable	Thyristor  Semiconductors, 3 connection points  3	Change-over contact (3-path), with pick-up and off-delay  Change-over contact, on- and off-delay
Limit switch, NO contact and NC contact with LEDs  Limit switch, variable	Change-over contact with break point (2-path)  Change-over auxiliary contact	Change-over contact, momentary contact make, right (2-path)  Change-over contact, momentary contact make, right









