

Course: EE512 Automated System (1)
Relay Logic and PLC basic symbols

Description		NEMA®	IEC															
Circuit breaker	Magnetic only																	
	Thermal-magnetic																	
Coil																		
Basic contacts	Normally closed																	
	Normally open																	
Time delay contacts	Normally closed, time closed																	
	Normally open, time closed																	
Fuse																		
Induction motor	Single-phase																	
	Three-phase																	
Indicating lights	Standard	 Insert color code inside symbol	 Insert color code next to symbol															
Overload relays	Thermal element																	
	Magnetic element																	
Pushbuttons	Illuminated																	
	Momentary (N.C.)																	
	Momentary (N.O.)																	
Selector switch	Two-position	 <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><th>Letter Sym</th><th>1</th><th>2</th></tr> <tr><td>A</td><td></td><td>X</td></tr> <tr><td>B</td><td>X</td><td></td></tr> </table>	Letter Sym	1	2	A		X	B	X								
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A		X																
B	X																	
Three-position	 <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><th>Letter Sym</th><th>1</th><th>2</th><th>3</th></tr> <tr><td>A</td><td>X</td><td></td><td></td></tr> <tr><td>B</td><td></td><td>X</td><td></td></tr> <tr><td></td><td></td><td></td><td>X</td></tr> </table>	Letter Sym	1	2	3	A	X			B		X					X	
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