



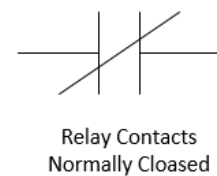
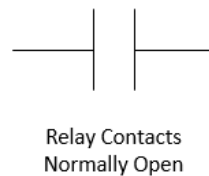
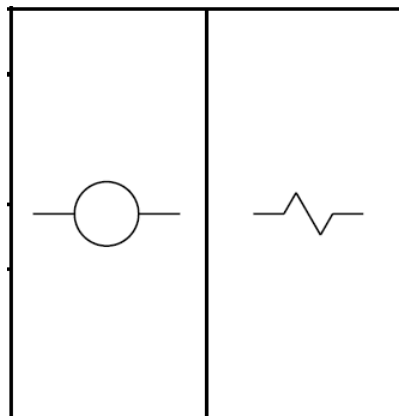
Integrated Manufacturing Systems Troubleshooting (IMST) Level 1

Attachment 1-7

JIC SYMBOLOGY

DISCONNECT		CIRCUIT INTERRUPTER	CIRCUIT BREAKER WITH THERMAL OL	CIRCUIT BREAKER WITH MAGNETIC OL	CIRCUIT BREAKER W/ THERMAL AND MAGNETIC OL	
LIMIT SWITCHES		FOOT SWITCHES	PRESSURE AND VACUUM SWITCHES	LIQUID LEVEL SWITCH	TEMPERATURE-ACTUATED SWITCH	FLOW SWITCH (AIR, WATER, ETC.)
NORMALLY OPEN	NORMALLY CLOSED					
		NO	NO	NO	NO	NO
		NC	NC	NC	NC	NC

PUSHBUTTONS						
MOMENTARY CONTACT				MAINTAINED CONTACT		ILLUMINATED
SINGLE CIRCUIT	DOUBLE CIRCUIT	MUSHROOM HEAD	WOBBLE STICK	TWO SINGLE CIRCUIT	ONE DOUBLE CIRCUIT	
NO 	NO AND NC 					
NC 						





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SUPPLEMENTARY CONTACT SYMBOLS						
SPST NO		SPST NC		SPDT		TERMS
SINGLE BREAK	DOUBLE BREAK	SINGLE BREAK	DOUBLE BREAK	SINGLE BREAK	DOUBLE BREAK	
						SPST SINGLE-POLE, SINGLE-THROW
						SPDT SINGLE-POLE, DOUBLE-THROW
DPST, 2NO		DPST, 2NC		DPDT		DPST DOUBLE-POLE, SINGLE-THROW
SINGLE BREAK	DOUBLE BREAK	SINGLE BREAK	DOUBLE BREAK	SINGLE BREAK	DOUBLE BREAK	DPDT DOUBLE-POLE, DOUBLE-THROW
						NO NORMALLY OPEN
						NC NORMALLY CLOSED





**Multi-State
Advanced Manufacturing
Consortium**

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