CONTROL SYMBOLS – WIRING DIAGRAMS

Power	Symbol	Relays	Symbol	Switches	Symbol	Ope	erators	Symbol	Elements	Symbol
Ground		Relay		Switch NO SPST	0 0	Tim	e delay NO	الم الم	Resistor	\sim
Ground chassis	\rightarrow	Relay Coil	$-\bigcirc-$	Switch NO SPDT	~°	Tim	e delay NO	<u> </u>	Capacitor	
Fuse	2	Thermal	-^	Switch NO DPST	0 0	Liqu	id level	-, ,	Inductor	
Circuit breaker)	Relay		Pushbutton NO		Ga	as flow		Transformer	
Disconnect		NO Relay		Pushbutton		Liqu	uid flow		Air core	
3-pnase	<u>}</u> - <u>}</u> -	Contact NC		NC		Tem	perature		Transformer	
1-phase	M	contact with	n same e. R1 or TD1	Pushbutton DPDT	 	The	rmostat	<u>f</u>		$\overline{\overline{\bigcirc}}$
Motor				Switch	*	Abb	rev D	escription	Delta 3-phase	\wedge
3-phase		Source Alternating	Symbol	selector		N	C	normally	Wve	
		current	AC	НОА		N	0	normally closed	3-phase	\checkmark
Interlock safety		Direct current		3-position	000	SP	ST s si	ingle pole ngle throw		
Surge protector	-• •-	Battery	+			SPI	DT s	ingle pole ouble throw		
Light	\sim					DP	ST de	ouble pole ngle throw		
Pilot		Thermo- couple				DPI	DT de do	ouble pole ouble throw		

Function	Diagram				
Start / Stop Motor Control Press start to energize motor relay M. Contact M latches around start. Stop breaks circuit. Thermal overload relay O/L in motor circuit senses current. If high, then it opens contact O/L to stop.	Stop Start M O/L				
Start / Stop With Indicator Press start to energize relay M. Contact M latches around start. Stop breaks circuit. Thermal overload relay O/L senses current. If high, then it opens contact O/L to stop. Another contact M turns on red indicator	Stop Start M O/L				
Switch Time Delay Normally closed contact R1 energizes indicator light Red. Closing Switch energizes relay R1. Contact R1 energizes time delay relay TD2. NC contact R1 opens to turn off red light. After time delay, contact TD2 closes to turn on Green indicator.	Switch $R1$ R1 $TD2R1$ $R1R1$ $RR1$ $RR1$ $RR1$ $RR1$ $RR1$ $RR1$ $RR1$ $RR1$ R				