



Vtek Controls design, produces and provide high quality actuators

Electric Actuator

VEX0050 Explosion Proof



Vtek
Controls™

Introduction

The new **VEX0050 Explosion Proof** from Vtek Controls has been developed for a wide range of applications with many years of experience with VEX explosion proof actuators used in various Valve Automation Field and to service reliable performance, long trouble free operation, more flexibility and maximized ability to integrate fully into sophisticated Explosion proof circumstances and hazardous area.



Advantage



Product Features (What are different?)

- Over Torque limiting by PCB
(To Prevent damage from excessive force)
- Over Torque warning can be checked on customer's PLC
by sending signal from PCB
- Self-Locking Gear System
- Free Voltage (AC100~240V) with DC motor
- Space heater on PCB
- Power ON LED on the PCB
- Built-in type Modulating card
- ISO 5211 Mounting Flange Size F03/F04/F05
(Option : F07 with adapter)
- Explosion proof : Ex d II C T4

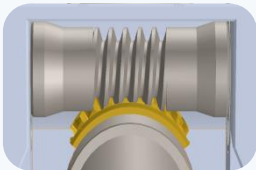
Inner structure



PCB with terminal blocks.
Torque limiting by PCB
(Option : Modulating type -
Sending signal to PLC and
make the motor stop running)



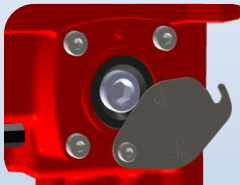
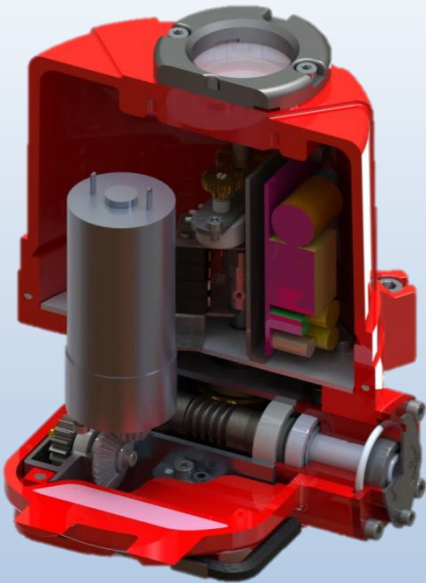
Indicator



Worm Gear
(Self-Locking)



Limit switches



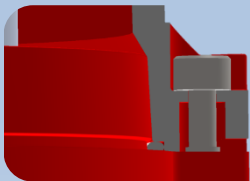
Manual operation
(with L-wrench)



Robust structures



ISO5211 Mounting Flange
(F03/F04/F05 and F07 as an option)

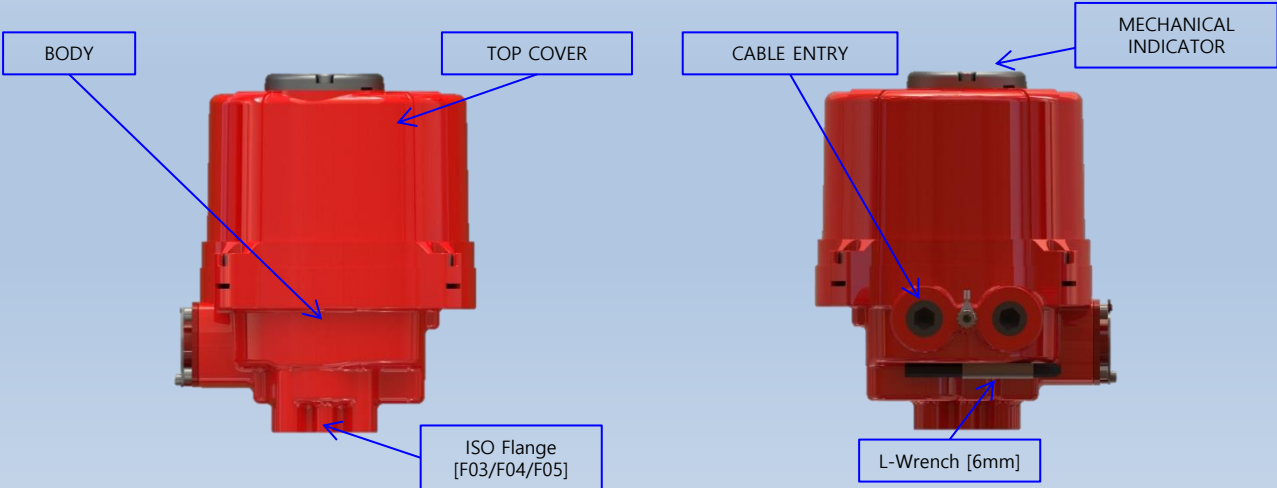


Explosion-proof structures

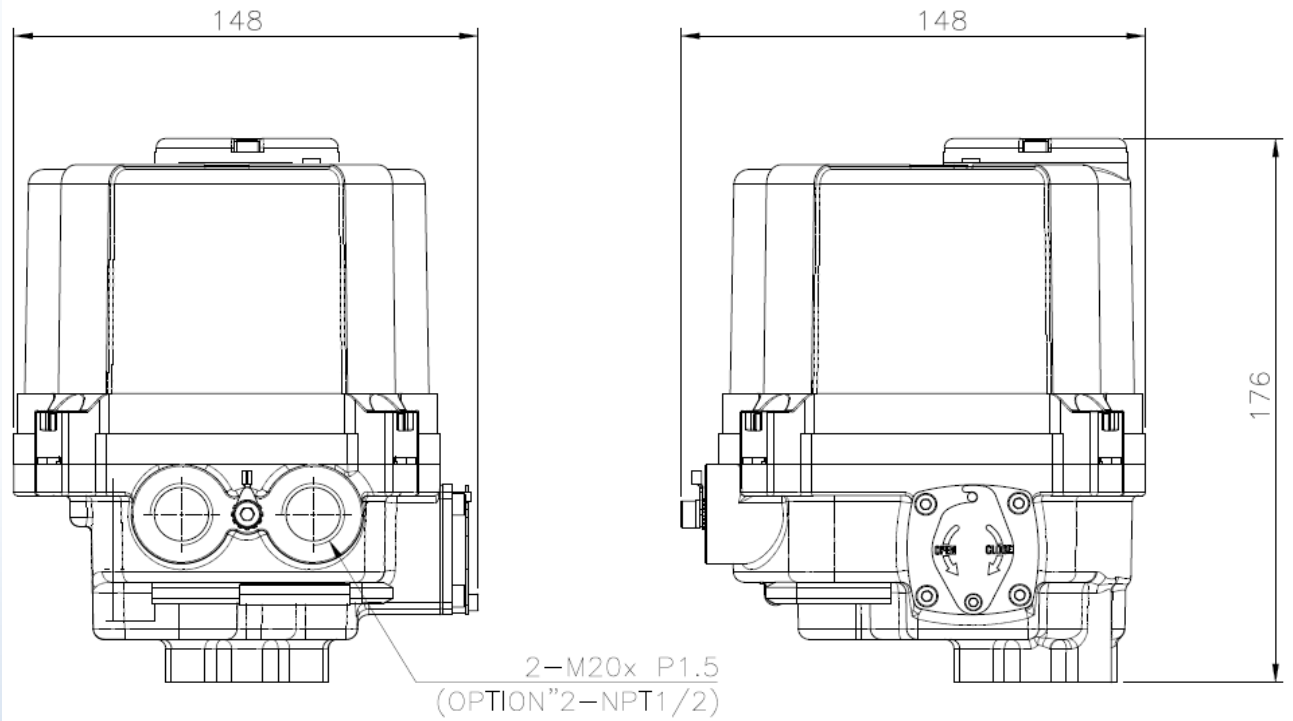
VEX0050 Explosion Proof

Standard Specification

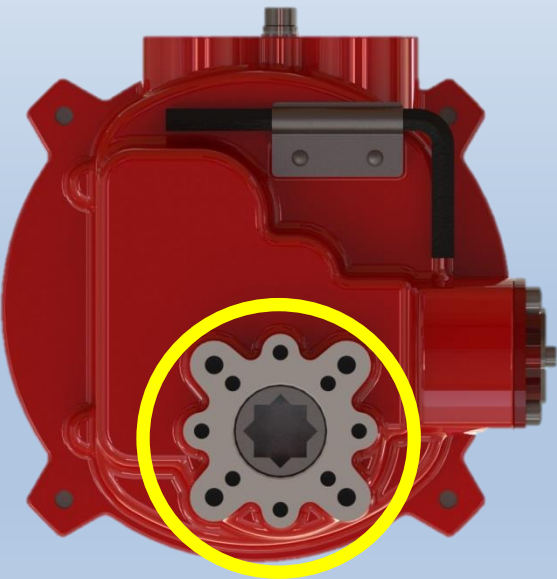
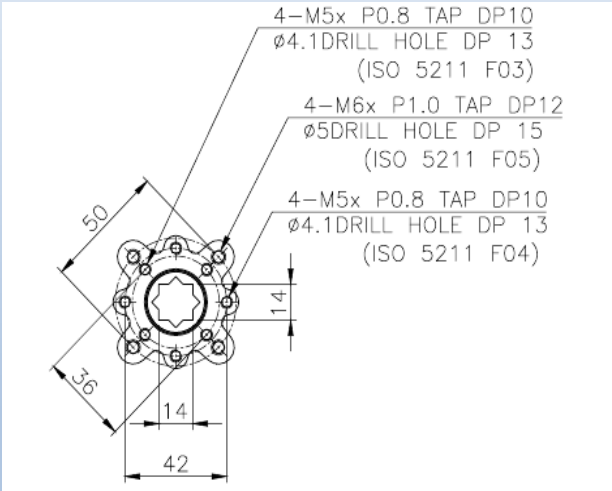
	VEX0050	REMARK
TORQUE (Nm)	50 Nm	
OPERATING SPEED (sec)	13 sec	
MAIN POWER SUPPLY	AC 100 ~ 240 V (Free Voltage) AC/DC 24V	
DUTY CYCLE (ON/OFF)	S2 : 30min	
DUTY CYCLE (MODULATING)	S4 : 50%	
CONTROL SIGNAL(MODULATING)	(RPC) 4~20mA (Option : 0~10VDC, 0~5VDC, 1~5VDC, 2~10VDC)	Input / Output
SPACE HEATER	4W	
LIMIT SWITCH	2ea Open, Close	
AUX. LIMIT SWITCH	2ea Open, Close	
AMBIENT TEMPERATURE	-20°C ~ +60°C	
AMBIENT HUMIDITY	90%RH MAX(NON-CONDENSING)	
ENCLOSURE	IP 67 (OPTION : IP68)	
EXPLOSION PROOF	Ex d II C T4	
CABLE ENTRY	2-M20x1.5 (Option: NPT ½, NPT ¾)	
WEIGHT(kg)	7.5 Lbs (3.4 kg)	



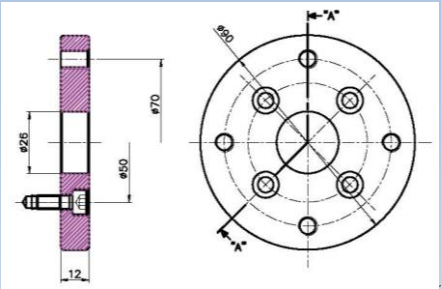
Dimension (mm) [is subject to change]

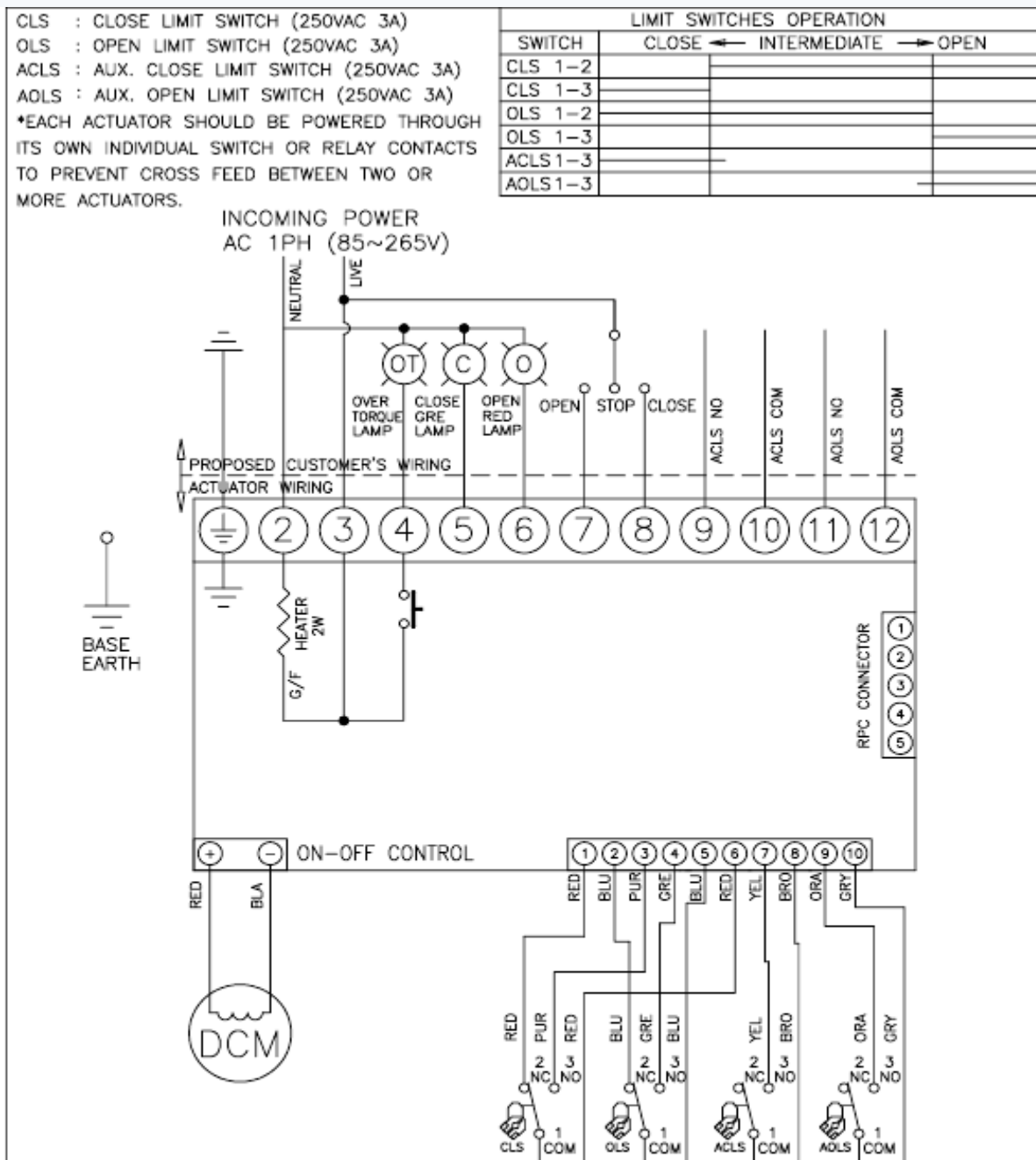


Standard
[F03/F04/F05]



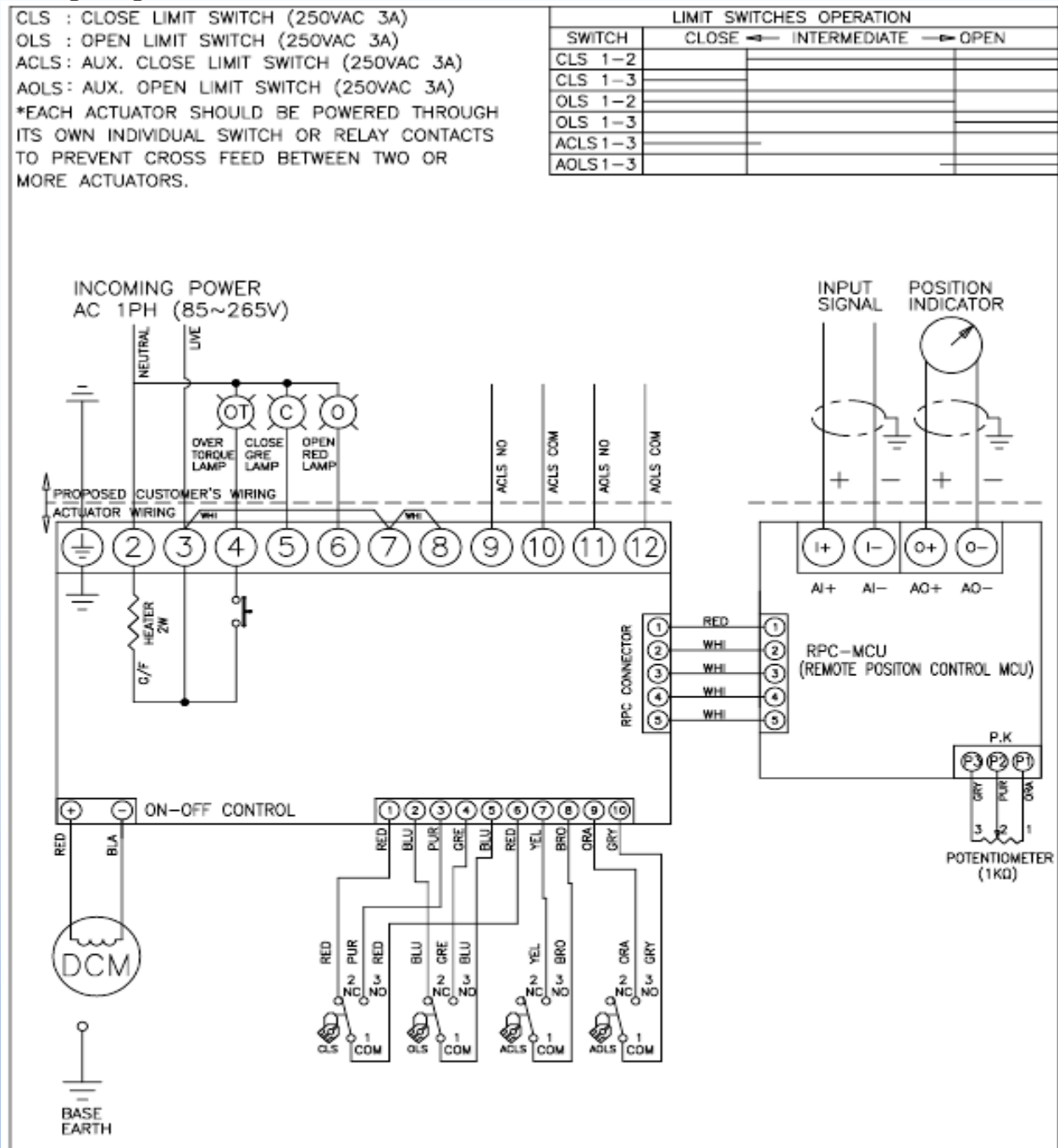
Option
[F07]





		 i-tork CONTROLS http://www.i-tork.com	DRAWN	DESIGN	CHECKED	APPROVED
			K.S.PARK2			K.S.PARK2
		PART NAME 1PH WIRING DIAGRAM	ISSU. DEPT.	DATE	SIZE	PROGRAM
			ITCDR	2024.12.26	A4	AUTOCAD LT 2010
ITX-0050		OPTION NAME STANDARD	WIR No.			
APP'L FILE			ITX0050-70000-B			

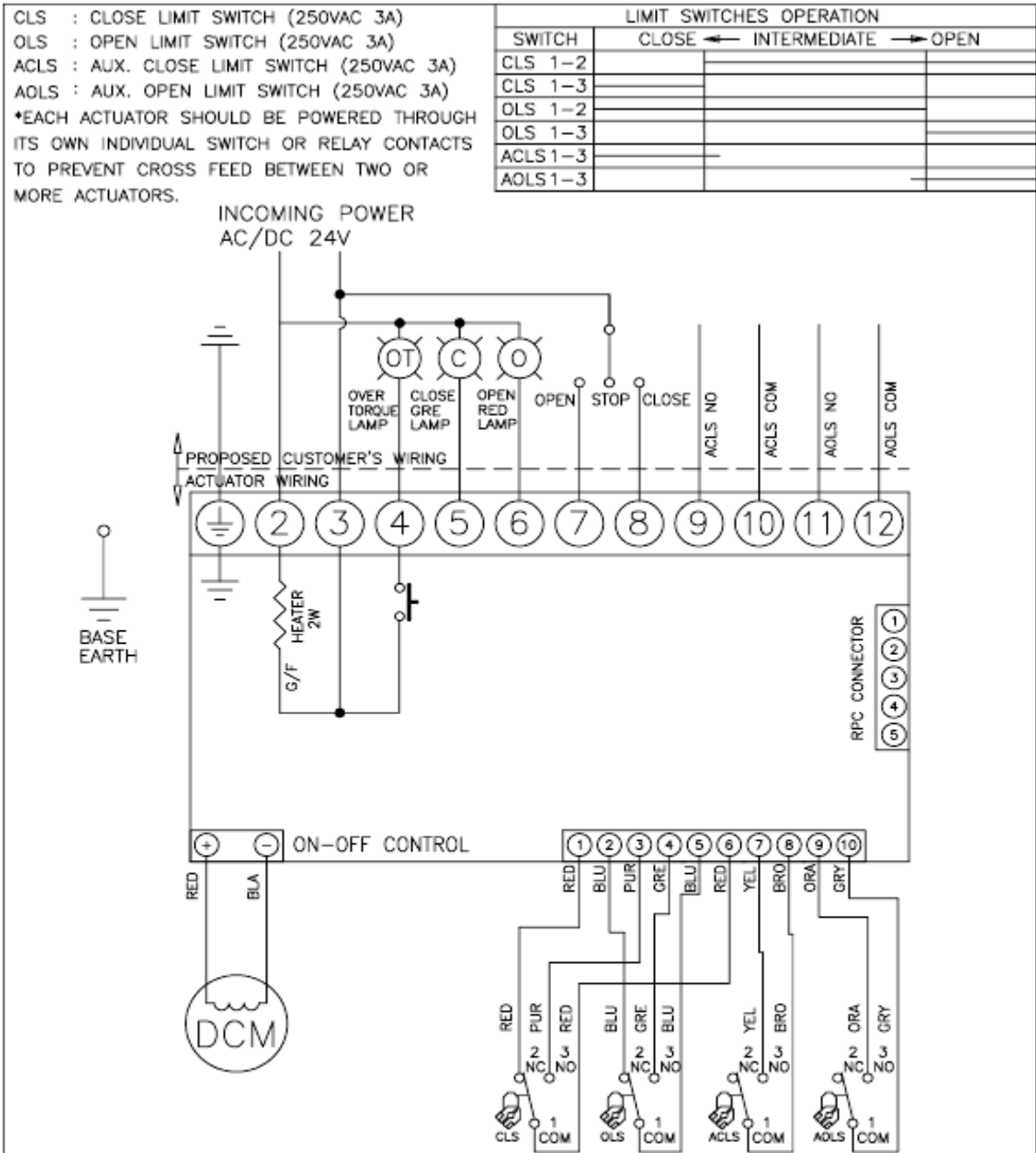
Wiring Diagram



 i-tork CONTROLS http://www.i-tork.com		DRAWN	DESIGN	CHECKED	APPROVER
		K.S.PARK2			K.S.PARK2
PART NAME		ISSU. DEPT.	DATE	SIZE	PROGRAM
1PH WIRING DIAGRAM		ITCDR	2024.12.26	A4	AUTOCAD LT 2010
OPTION NAME		WIR No.			
RPC		ITX0050-70500-B			

ITX-0050
APP'L FILE

Wiring Diagram



		 http://www.i-tork.com	DRAWN	DESIGN	CHECKED	APPROVER
			K.S.PARK2			K.S.PARK2
		PART NAME	ISSU. DEPT.	DATE	SIZE	PROGRAM
		AC/DC 24V WIRING DIAGRAM	ITCDR	2024.12.26	A4	AUTOCAD LT 2010
		OPTION NAME	WIR No.			
		STANDARD	ITX0050-90000-B			
ITX-0050						
APP'L FILE						

VEX - SERIES

Quarter Turn Actuators for butterfly and ball valves



VEW0020

VEW0040

VEX0050

VEW0080



**VTEK CONTROLS
PERFECT SOLUTION IN VALVE AUTOMATION!**

Vtek
Controls™

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