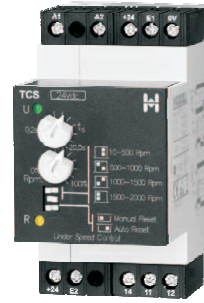


TCS

overview

- ◆ under speed control with fault latching function
- ◆ input PNP 24Vdc, volt free contact and 15-40Vdc
- ◆ start surge delay 0,2..20,5s
- ◆ 4 selectable speed ranges
- ◆ LED indicators for power supply, relay and status output relay
- ◆ 45mm DIN rail mount housing

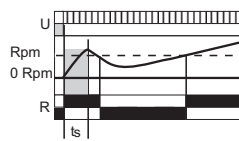


Function

- Control relay active
- Control relay passive
- Contact closed
- Contact open

- ① Underspeed threshold
- ② Monitored speed
- ts... Start surge delay

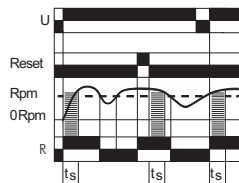
Auto Reset



Control relay to monitor under speed

On application of the supply voltage the output relay energises and the timing period t_s starts. The TCS monitors the time between the leading edge of successive input pulses. When the timing period between the pulses exceeds the set value, the output relay drops out.

Manual Reset



Auto Reset

When the timing period between the pulses returns to the acceptable range for three successive pulses the output relay resets.

Manual Reset

The output relay resets when terminals +24 and E2 are connected. After breaking the connection time t_s starts.

specification

supply voltage variation	nominal voltage -20%..+10%
frequency range	48..63 Hz
duty cycle	100%
range	TCS 10..2000 Rpm/5..95% duty cycle
	TCS-H 500..9000 Rpm/5..95% duty cycle
start surge delay	0,2..20,5s
output spec. (EN60947-5-1)	
relay type	2
I_o AC-15 230V~	1,5A
I_o AC-15 115V~	1,5A
I_o DC-13 24V=	1,5A
I_{the} @+20°C, detached	10A
I_{the} @+60°C, attached	5A
expected life time	
mechanical operations	1×10^7
electrical operations	1×10^5
screws	pozidriv 1, slot 4mm
screw tightening torque	0,4Nm
operating conditions	-20 bis +60°C non condensing

ordering information

part no	supply	output	relay type	sup. galv. iso*	UL	housing types
TCS 230Vac	230V~ 2,5VA	SPCO	2	yes	-	C
TCS 115Vac	115V~ 2,5VA	SPCO	2	yes	-	C
TCS 24Vdc	24V= 2W	SPCO	2	no	-	C
TCS-H 230Vac	230V~ 2,5VA	SPCO	2	yes	-	C
TCS-H 115Vac	115V~ 2,5VA	SPCO	2	yes	-	C
TCS-H 24Vdc	24V= 2W	SPCO	2	no	-	C

* The measurement input is galvanically isolated from the power supply



under speed control

