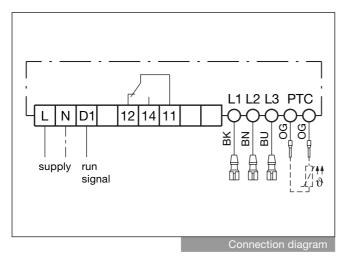
INT69 VSY-II® Protection module





Application:

The KRIWAN INT69 VSY-II protection module complements the convential temperature monitoring function of the well-

known switching device INT69 VS with phase sequence monitoring (Y) for screw and scroll compressors.

Functional description:

If the response temperature of any of the connected thermistors is exceeded, the module trips and locks out. The phase sequence monitor on the threephase supply is active when the supply voltage is also present on terminal D1 (typically via contactor auxiliary contact). An anticlockwise phase se-

quence also results in a trip and lockout. The D1 input allows the user to suppress reverse rotation tripping due to pressure equalisation after shut down on screw compressors. The lockout can be cancelled by interrupting mains supply for approx. 5 seconds.

The unit must be connected by trained electrical personnel. All valid standards for connecting electrical equip-

ment must be observed. Limit values for the supply voltage of the unit may not be exceeded.

AC 50/60Hz 230V ± 10% 3VA

Technical data Supply voltage

Part-No.	52 A 125 S33		
Works setting	jumper between L and D1		
Weight	approx. 210g		
Dimensions with terminal cover	87 x 40 x 58mm		
	acc. to DIN EN 50022 or screw-mounted		
Mounting	snap-on 35mm standard rail		
acc. to EN 60529	without terminal cover: IP00		
Protection class	with terminal cover: IP20		
Housing	PA6 GF30		
Mechanical service life	ca. 1 mio. switching cycles		
Relay	AC 250V, max. 5A, 300VA ind.		
- recog. time phase sequence	length approx. 250mm with 6.3mm connectors < 0.5s		
- L1, L2, L3 connection	AWG20-leads (BK/BN/BU)		
- motor voltage	AC 2080Hz 200400V		
Phase sequence monitoring: - operation recognition	L-potential on terminal D1		
- connection	relay on: $< 2.95 k\Omega \pm 20\%$ orange leads, with ferrules length approx. 300mm		
- switching point	relay off: $> 11.4k\Omega \pm 20\%$		
- number of sensors	acc. to DIN 44081/082 19 in series, $R_{25 \text{ total}} < 1.8 \text{k}\Omega$		
- type of sensors	PTC-thermistors		
Measuring circuit:			
Ambient temperature range	-20+60°C		

Temperature phase sequence		phase sequence	contact D1	alarm	comment
<	trip	/	inactive	good	phase sequence
	value				is not evaluated
>	trip	/	inactive	fault	trip
	value				PTC fault, phase sequence
					is not evaluated
<	trip	clockwise	active	good	normal condition
	value	orinactive			
>	trip	clockwise	active	fau It	trip due to
	value	orinactive			PTC fault
<	trip	anti-	active	fau It	trip due to
	value	clockwise			phase sequence
>	trip	anti-	active	fau It	trip due to fault of
	value	clockwise			PTC and phase sequence

Function table:

Other supply voltages on request

Subject to technical modifications without notice