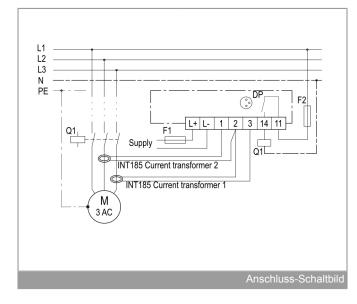
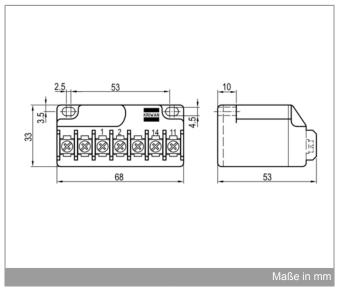
KRIWAN

INT[®]89 | Diagnose



INT89 I Diagnose





Application

The INT89 I Diagnose motor protector is a further development of the established KRIWAN motor protectors.

Besides the INT89 I Diagnose, the INT185 current converter is required as second component of the KRIWAN monitoring system. The availability and the lifespan of a machine are increased by the quickly reacting current monitoring.

The INT89 I Diagnose saves operating and error data in a nonvolatile memory. This data can be read and evaluated for diagnosis. This motor protector is mainly used for systems where current monitoring is necessary.

Functional description

The following events cause activation in the case of current monitoring

- Permanent exceeding of the switch-off value for the activation delay time.
- 1.5x of the switch-off value has been exceeded after expiry of the • start-up time.

A short circuit or an open circuit at a current input also causes a switch-off.

Settable parameters (see parameter table) can be set via the diagnostics port with the help of the INTspector app, and with separately available accessories.

Only the output relay is galvanically isolated.

For operation in accordance with regulations, the INT89 I Diagnose must be continuously supplied with the specified supply voltage.

Safety instructions



Installation, maintenance, and operation are to be carried out by an electrician.

The applicable European and national standards for connecting electrical equipment must be observed.

Connected sensors and connection lines that extend from the terminal box must feature at least a basic insulation.

Order data

INT89 I Diagnose	13 A 576 P080
Further product information	See www.kriwan.com

Technical specifications

Supply voltage	24 V ±20 % 2 W			
Permissible ambient temperature	-30+70 °C			
T _A				
Current monitoring				
 Switch-off value 				
 Accuracy 	±5 %			
- Activation delay / start-up time				
 Accuracy 	±10 %			
 Max. length of connection line 	0.5 m			
Input run detection motor				
 Motor on 	≥~ 50/60 Hz 1 A ±5 %			
– Motor off	≤~ 50/60 Hz 0.5 A ±5 %			
Operation with frequency converter	Not suitable			
Reset of the reset delay	Power reset >5 s only possible			
-	when error no longer present			
Relay				
– Contact	240 V ~ 2.5 A C300			
	Mind. 24 V ~ / 20 mA			
 Mechanical service life 	Approx. 1 million switching oper- ations			
Interface	Diagnostics port (DP)			
Protection class according to EN 60529	IP00			
Connection type	Screw terminals			
Housing material	PA glass-fiber reinforced			
Mounting	Can be snapped onto 35 mm DIN			
	rail according to EN 60715 or			
	screw mounting			
Dimensions	See dimensions in mm			
Weight	Approx. 100 g			
Testing basis	IEC/EN 60335, IEC/EN 60730,			
	UL 60730			
	EN 61000-6-2, EN 61000-6-3			
	EN 61010-1			
	Overvoltage category III			
	Pollution level 2			
Approval	VDE certificate no. 40042853			

Parameter table

Parameter name	Adjustment range		Default	Unit	Individual settings
	Min	Max			
Current monitoring 1					_
 Operating mode 	Deactivated	3-phase	1-phase		
 Switch-off value 1, 1-phase 	4.0	100.0	4.0	А	
 Switch-off value 1, 3-phase 	4.0	72.0	4.0	А	
 Switch-off value 2 (in % to 	110	200	150	%	
switch-off value 1)					
Current monitoring 2					
 Operating mode 	Deactivated	3-phase	1-phase		
 Switch-off value 1, 1-phase 	4.0	100.0	4.0	А	
 Switch-off value 1, 3-phase 	4.0	72.0	4.0	А	
 Switch-off value 2 (in % to 	110	200	150	%	
switch-off value 1)					
Activation delay					
 Current monitoring 1 switch-off value 1 	0,5	6,0	4,0	s	
- Current monitoring 2 switch-off value 1	0,5	6,0	4,0	s	
Reset delay					
 Current monitoring 1 switch-off value 1 	00:00:01	Locked	00:05:00	hh:mm:ss	
 Current monitoring 1 switch-off value 2 	00:00:01	Locked	00:05:00	hh:mm:ss	
- Current monitoring 2 switch-off value 1	00:00:01	Locked	00:05:00	hh:mm:ss	
- Current monitoring 2 switch-off value 2	00:00:01	Locked	00:05:00	hh:mm:ss	
Operating areas limits					
Current monitoring 1					
 Operating area limit from increased to 	0	100	85	%	
critical as percentage from trip point 1					
 Operating area limit from normal 	0	100	80	%	
to increased as percentage from					
"increased to critical"					
Operating areas limits					
Current monitoring 2					
 Operating area limit from increased to 	0	100	85	%	
critical as percentage from trip point 1					
 Operating area limit from normal 	0	100	80	%	
to increased as percentage from					
"increased to critical"					

KRIWAN Industrie-Elektronik GmbH

Allmand 11 74670 Forchtenberg Deutschland

phone: (+49) 7947 822 0 info@kriwan.com fax: (+49) 7947 1288

www.kriwan.com

