

Tender specification

INT69® YF Diagnose – Pump protection module

The Diagnose protection module for universal pump protection:

It monitors phase sequence, phase failure, phase asymmetry, overvoltage, undervoltage, temperature (three inputs), leakage (two inputs), 4-20mA signal, switching frequency, operating hours, short-circuit and interruption of the sensors.

Via the digital interface and the INTspecter App an individual parameterization of the warning and switch-off values, tripping delay as well as restart delay or a locked switch-off without automatic restart takes place.

Temperature inputs can be selected between PTC, PT100, PT1000 and bimetal.

The leakage inputs can be set to exceed and undercut. The leakage value can be parameterized as ohm value.

An alarm relay and a warning relay ensure that the pump is switched -off safely and that advance warning is given.

The Diagnose function provides operating data, error lists, error counter, operating hours, switching cycles, current measurement values and an additional detailed error analysis of the last incidenced error (all measured values over a predefined time window). At the digital interface, the data can be read out via app and gateway (accessories) using a smartphone, tablet or PC or passed on to external systems.

Technical data:

Dimensions (WxHxD):	45,0mm x 127,2mm x 113,6mm
Connection type:	Removeable push-in terminals
Mounting:	Switching cabinet installation, DIN rail 35,0mm
Supply voltage:	AC/DC 50/60Hz 24V \pm 10% 9VA AC 50/60Hz 100-240V \pm 10% 9VA
Ambient temperature:	-30°C...+70°C
Interface:	Diagnose Port
Display:	LED for function control via blinc code
Phase monitoring:	3 phases, 100 – 690V \pm 10%, 20-100Hz \pm 10% suitable for operation with frequency converter
Motor temperature:	PTC, PT100, PT1000 and bimetal
Temperature 1 & 2:	PTC, PT100, PT1000
Leakage 1 & 2:	10k – 1M Ω
Analog input:	0-20mA/4-20mA*
Relays:	Alarm relay and warning relay*, 2 x AC 240V, 2,5A C300
Certifications:	IEC, UL
Manufacturer:	KRIWAN Industrie-Elektronik GmbH
Type:	INT69 YF Diagnose
Part number:	20A701P081* (AC/DC 50/60Hz 24V) 22A701P081* (AC 50/60Hz 100-240V) 20A700P081 (AC/DC 50/60Hz 24V) 22A700P081 (AC 50/60Hz 100-240V)
Accessories	INT600 DM Gateway, PN 22S371 INT600 DU Gateway, PN 02S365S21 INT600 DB Gateway, PN 02S377S021

* Part number 20A701P081 and 22A701P081: Additional 0-20mA input and relay for “Warning“