

Tender specification

INT69® PYF Diagnose Premium – Pump protection relay

The diagnose protection relay for universal protection of 3 x temperature, 1 x leakage, 1 x switching input, 1 x 4-20mA signal and 1 x phase monitoring with phase sequence, phase failure, overvoltage, undervoltage and phase asymmetry. To use the entire range of functions, the current transformer INT 185 is required. This enables the monitoring of current and $\cos\phi$. The converted active, reactive and apparent power is determined in the protection relay as well as active and reactive energy. Additionally, switching frequency and operating hours can be monitored. An alarm relay and a warning relay ensure the safe switch-off and the advance warning.

Parameterization and diagnose are possible via the INTspector App. All inputs and outputs are configurable. The data can be transmitted to external systems via Modbus RTU (RS485) or alternatively via the Diagnose Port (DP) and the gateway.

Technical data

Dimensions (HxWxD):	127mm x 45mm x 117mm
Connection type:	Removeable push-in terminals or screw terminals
Mounting:	Switching cabinet installation; DIN rail 35mm
Ambient temperature:	-30°C...+70°C
Interface:	Modbus RTU (RS485); Diagnose Port (DP)
Display:	LED for function control via blink code
Phase monitoring:	3 phases; 100 – 690V $\pm 10\%$; AC 20-100Hz $\pm 10\%$
Motor temperature:	PTC; Pt100; Pt1000; bimetal; external relay contact
Temperature 1 & 2:	PTC; Pt100; Pt1000
Leakage:	10k – 1M Ω
Switching input:	Floating switch; external reset
Analog input:	0-20mA/4-20mA
Current monitoring:	Current transformer INT185
Power measurement:	Active, reactive and apparent power; $\cos\phi$
Relay:	Alarm relay and warning relay; 2 x AC 240V; 2.5A
Certification:	UL File No. E473026 cURus
Manufacturer:	KRIWAN Industrie-Elektronik GmbH
Type:	INT69 PYF Diagnose
Part number:	20A721P081 (AC/DC 50/60Hz 24V) 22A721P081 (AC 50/60Hz 100-240V)
Accessories:	INT600 DU Gateway; PN 02S365S21 (USB-Gateway; direct connection between INT69 PYF Diagnose and PC, smartphone or tablet)
Accessories:	INT185 current transformer; PN 02D187; AC 20-100Hz 5-100A (required for measuring current and determining power and $\cos\phi$, as well as for the energy meters)