

PRELIMINARY

TECHNICAL DATA

Input:

Input signal	Impedance	U _{max}
3 x 115V AC + N	150 kOhm	600V AC
3 x 230V AC + N	316 kOhm	600V AC
3 x 400V AC + N	560 kOhm	600V AC

Frequency: 45-66Hz.

Temperature drift: All specifications apply for the specified temperature range.

Delay: 0.3s-0.7s.

Phase measuring:

With neutral: Fault: $\Delta\phi > 25^\circ$, typically $\Delta\phi > 20^\circ$
 Without neutral: Fault: $\Delta\phi > 50^\circ$, typically $\Delta\phi > 40^\circ$

Voltage measuring:

With neutral:
 Change on 1 phase:
 Energized output relay: $> 90\%$ of V_{nom.}, typically by $> 80\%$.
 Fault: $< 65\%$ of V_{nom.}, typically by $< 70\%$.

Change of 3 phases, symm.:

Energized output relay: 90% of V_{nom.}
 Fault: $< 80\%$ of V_{nom.}, typically by $< 85\%$.

Without neutral:

Change on 1 phase:
 Energized output relay: $> 90\%$ of V_{nom.}, typically by $> 80\%$.
 Fault: $< 50\%$ of V_{nom.}, typically by $< 60\%$.

Change of 3 phases, symm.:

energized output relay: 90% of V_{nom.}, typically by $> 85\%$.
 Fault: $< 75\%$ of V_{nom.}, typically by $< 80\%$.

Output:

SPDT relay: Contact material; AgNi0.15 with hardened gold plating Au.
 Max. Load AC; 8A/240V AC ($\cos\phi=1$)
 Max. breaking capacity
 2000VA. Inductive load. See fig. 1.
 Max. load DC, 8A/24V DC
 Max. breaking capacity 50-270W. See fig. 2.

Max. in rush current: 15A (max. 4s/duty cycle less than 10%).

Min. in rush current: 10mA, 24V DC.

Frequency: Max. 1000 operations pr. hour.

Life time: Mech. Min. 1×10^5 operations.

Elect: Min. 3×10^7 operations with full load.

Delay: $< 20\text{ms}$.

Supply voltage:

Supplied via phase: V(L2) and W(L3).
 Consumption: 3VA.

General data:

Ambient temperature: -20 to 55°C.

Storage temperature: -40 to 80°C.

Mounting: 35mm DIN-rail (EN50022)

Terminals: Screw terminals with dual compartment.
 Terminal screws are combined crosshead/slotted.

Up to 2 x 2.5mm² wire (2 x 1.5mm² inc. ferrule).

Recommended torque, 0.5 Nm.,

Max. 0,7 Nm. (VDE0609-1).

Terminal identification in accordance with DIN46199/EN50005.

Weight: 180 g.

Indicators: Green LED = operating voltage.

Red LED = relay off - failure.

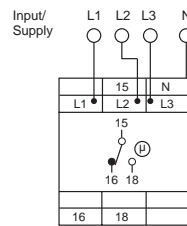
Protection: IP20.

Electric isolation: 3.75kVAC (1 min.) between input, supply and relay output (EN60950).

Housing: Noryl (GE), UL94V1.

Terminal block: Noryl (GE), UL94V0.

WIRING DIAGRAM



SPECIFICATIONS:

MXP-20 is designed and developed with regard to relevant specifications:

- EN60204-1 / VDE0113 electrical material on machines.
- VDE0110 / IEC664 Isolation specifications/creepage and clearance distances.
- Electrical safety in accordance with EN61010.
- IEC414 Safety regulations for control and monitoring equipment.
- EMC: Emission EN50081-1
Immunity EN50082-2
- Humidity in accordance with IEC68-2-3; RH=95%, 40°C
- Vibration in accordance with IEC68-2-6:
- Shock when mounted, in accordance with IEC68-2-27.

MXP-20 is CE-marked in accordance with EMC-and the Low Voltage Directive.

OUTPUT LOAD DIAGRAMS

Fig. 1

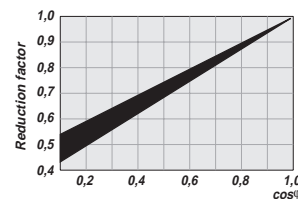


Fig. 2

