

Model : RPF

Features

- The RP series are DIN-case electrical power transducers designed for the general industries applications
- Manufactured to strict compliance IEC 688.
- The input & output parameters are per-selected from a wide range of industries' compatible signals and other non-stated ranges are available on request or as options
- Well-proven applied circuitries fully ensuring long term stability
- DIN case in small size of space saving
- Protective touch-proof terminals and enclosure meeting requirements of VBG4 & VDE 0106 part 100 (Germany)

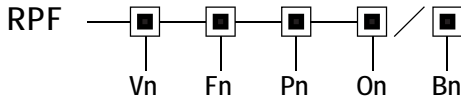


Compliance : IEC 688
Power transducers
Measuring & conversion
Dielectric Strength
Impulse test
Surge test

New Hybrid Asic Designed Electric Transducer

- High performance & stability of less than 100 ppm drift per °C change
- High impulse & surge protection of up to 5KV (RMS) meeting IEC 255-4
- Commonly for DIN rail-mounting

Order form



Example : RPF-V1-F2-P1-O1/B2

Input & output parameters

Vn : Sensing voltage	Vn range	V1 60~300V	V2 300~500V		On :Output		
Fn : Frequency input	Fn rating	F1 50 Hz	F2 60 Hz		O1 0~1 mA	O2 0~20 mA	O3 (uni.) 4~20 mA
Bn : Calibration band	Bn range	B1 ± 0.5 Hz	B2 ± 1 Hz	B3 ± 2 Hz		O5 0~10 mA	O6 0~1 V
		B4 ± 5 Hz	B5 ± 10 Hz		O7 0~5 V	O8 0~10 V	O9 2~10 V
Pn : Auxiliary power input	Pn rating	P1 120 V	P2 240 V	Py Internal powered / DC powered order on request	O10(uni.) 1~5 V		

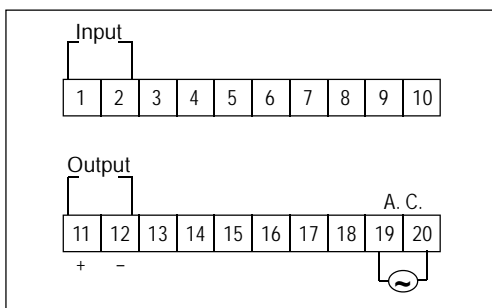
Note :

1. For internal powered type ... zero based outputs and Vn operation range 85%~115%

Specification

Accuracy (23 ± 5°C)	0.025% of named frequency
Stability	Maximum 100ppm / °C, less 0.2% drift per year typically
Input burden	Voltage 0.2VA typically
Frequency	50 / 60 ± band
Maximum input over	Voltage related input : maximum 2 x rated continuous (50~300V), maximum 1.5 x rated continuous (100~500V)
Output load	DC current mode : maximum 10V drop DC voltage mode : maximum 5mA drive
Response & ripple	< 400ms for step change 0-95%, ripple less 0.5% ro peak-peak
Magnetic effect	< 0.05% change 1M center 100 ampere-turn, synchronized with line frequency
Aux. power effect	< 0.002% for per voltage change
Dielectric strength	4KV AC rms 1 minute between terminals to case IEC 688 2KV AC rms 1 minute between input / output / power IEC 688
Impulse / SWC	IEC 255-4, 5KV 1.2x50us, IEC255-22-1, 2.5KV (1MHz / 400Hz)
Operating condition	-5 to 60°C, 20 to 99% RH non condensing
Storage condition	-20 to 70°C, 20 to 99% RH non condensing
Radio screening	RFI degree N complies with VDE 0875
Enclosure code	Case IP 50 / terminals IP 30, complies with IEC 529, BS 5490 DIN 40050
Power supply	AC 120V / 240V ±15%, 50 / 60Hz, < 3.5W

Terminals Connection



Note :

1. A.C. : Auxiliary AC power
2. Terminal 19 (+), 20 (-) for DC power option

Dimension

