

Model : RPPF200

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)

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



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

Order form

RPPF200 — \square — \square — \square — \square — \square / \square 3P3W / 3P4W
 Vn An Fn Pn On Dn Example : RPPF200-V1-A2-F2-P1-O1/D3

Input & output parameters

Vn : Voltage input	Vn rating range	V1 120 V 85-150V	V2 240 V 180-300V	V3 415 V 300-500V	On :Output		
					O1 0-1 mA	O2 0-20 mA	O3 (uni.) 4-20 mA
An : Current input	An rating range	A1 1A 0-1.2A	A2 5A 0-6A		O4 (bi.) 4-12-20 mA	O5 0-10 mA	O6 0-1 V
					O7 0-5 V	O8 0-10 V	O9 2-10 V
Fn : Frequency input	Fn rating range	F1 50 Hz 48-52 Hz	F2 60 Hz 58-62 Hz		O10(uni.) 1-5 V	O11 (bi.) 1-3-5 V	
Pn : Auxiliary power input	Pn rating	P1 120 V	P2 240 V	Py Internal powered / DC powered order on request			

Note :

1. uni. = uni-direction = 0 to +span bi. = bi-direction = -span to 0 to +span referring to calibration
2. For internal powered type ... zero based outputs and Vn operation range 85%-115%

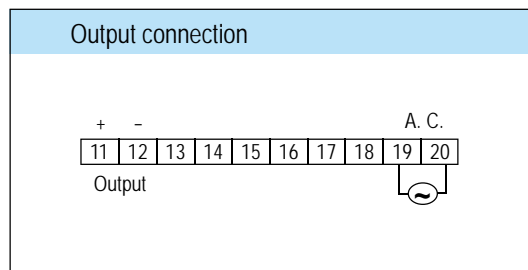
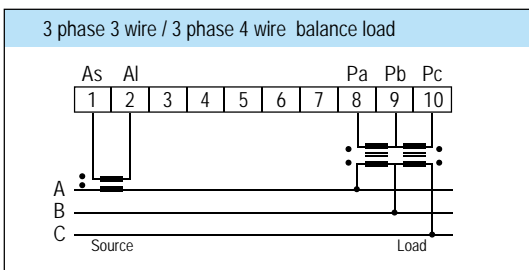
Calibration : Dn

Unipolar output (as 0-10V, 4-20mA, 0-10mA)	Bipolar output (as $\pm 10V, \pm 1mA, \pm 10mA$)
D1 : 0.5 (C) to 1 to 0.5 (L) vs 0 to 1/2 span to full span output D2 : 0 (C) to 1 to 0 (L) vs 0 to 1/2 span to full span output 	D3 : 0.5 (C) to 1 to 0.5 (L) vs -span to 0 to +span output D4 : 0 (C) to 1 to 0 (L) vs -span to 0 to +span output
Note : (C) : Capacitive load (L) : Inductive load Example : RPPF200-V1-A2-F2-P1-O3/D1 Input : 120V 5A 60Hz Output : 4-12-20mA vs 0.5 (C)-1-0.5 (L) Aux. power : AC120V	Note : (C) : Capacitive load (L) : Inductive load Example : RPPF200-V1-A2-F1-P1-O1/D3 Input : 120V 5A 50Hz Output : -1-0-+1mA vs 0.5 (C)-1-0.5 (L) Aux. power : AC120V

Specification

Accuracy (23 \pm 5°C)	0.2% ro + 0.3°
Stability	Maximum 100ppm / °C, less 0.2% drift per year typically
Input burden	Current 0.3VA typically, voltage 0.2VA typically
Frequency	50 \pm 2Hz, 60 \pm 2Hz
Maximum input over	Current related input : 2 x rated continuous, 10 x rated 10 sec, 25 x rated 2 sec, 50 x rated 1 sec Voltage related input : maximum 2 x rated continuous (120V / 240V), maximum 1.5 x rated continuous (415V)
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	< 0.005% 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 \pm 15%, 50 / 60Hz, < 3.5W

Terminals Connection



Note :

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

Dimension

