



Model : RPK

Features

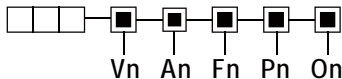
- The RP series are DIN-case electrical power transducers designed for the general industries applications
- Manufactured to strict compliance IEC 688.
- The input & output parameters are per-selected from a wide range of industries' compatible signals and other non-stated ranges are available on request 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

Connection	Model	Standard analog calibration			RPK 
			1A	5A	
3 Phase 3 Wire Unbalance	RPK201	V1=VL=120V V2=VL=240V V3=VL=415V	200 400 800	1K 2K 4K	Note : Voltage input : Phase voltage for 3 phase 4 wire (Vp) Line to line voltage for 3 phase 3 wire (VL)
3 Phase 4 Wire Unbalance	RPK301	V0=VP=69.3V V1=VP=120V V2=VP=240V V3=VP=415V	200 300 600 1.2K	1K 1.5K 3K 6K	

Input & output parameters

Vn : Voltage input	Vn rating range	V0	V1	V2	V3	On : Output		
						O1	O2	O3 (uni.)
An : Current input	An rating range	A1	A2			O4 (bi.)	O5	O6
						4-12-20 mA	0-10 mA	0-1 V
Fn : Frequency input	Fn rating range	F1	F2			O7	O8	O9
						0-5 V	0-10 V	2-10 V
Pn : Auxiliary power input	Pn rating	P1	P2	Py	Internal powered / DC powered order on request	O10 (uni.)	O11 (bi.)	
						1-5 V	1-3-5 V	

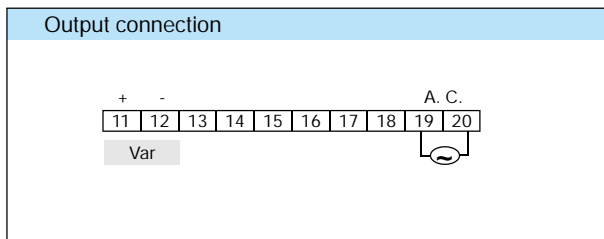
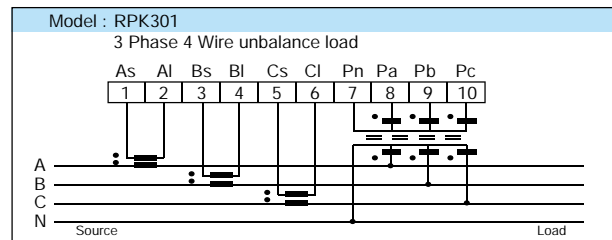
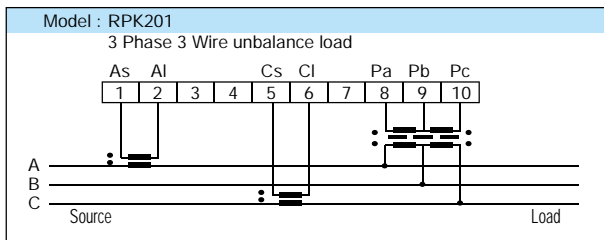
Note :

1. uni. = uni-direction = 0 to +span bi = bi-direction = -span to 0 to +span
Example : 4-20mA = 0 to +1000W 4-12-20mA = -1000W to 0 to +1000W
2. For uni-directional transducers, vars for lagging power
3. For internal powered type ... zero based outputs and Vn operation range 85%-115%

Specification

Accuracy (23±5°C)	0.2% ro
Stability	Maximum 100ppm / °C, less 0.2% drift per year typically
Input bruden	Current 0.3VA typically; voltage 0.2VA typically
Frequency	50±2Hz, 60±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 amper-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 ±15%, 50 / 60Hz, < 3.5W

Terminals Connection



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

Dimension

