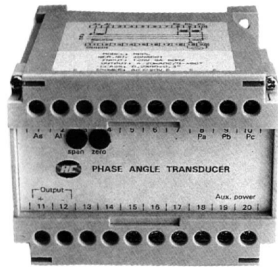
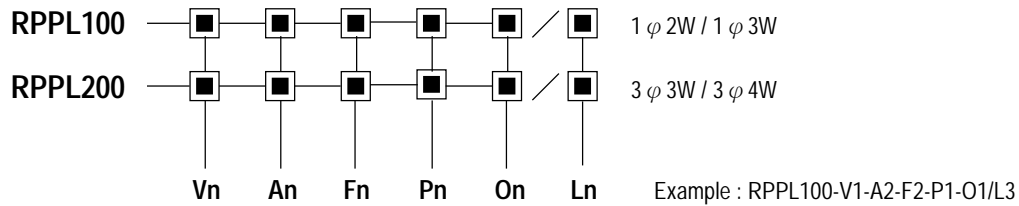


PHASE ANGLE TRANSDUCER



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

Order form



Input & output parameters

Vn : Voltage input	Vn rating range	V1	V2	V3	On : Output		
		120 V 85-150 V	240 V 180-300 V	415 V 300-500 V	O1 0-1 mA	O2 0-20 mA	O3 (uni.) 4-20 mA
An : Current input	An rating range	A1	A2		O4 (bi.) 4-12-20 mA	O5 0-10 mA	O6 0-1 V
		1 A 0-1.2 A	5 A 0-6 A		O7 0-5 V	O8 0-10 V	O9 2-10 V
Fn : Frequency input	Fn rating range	F1	F2		O10 (uni.) 1-5 V	O11 (bi.) 1-3-5 V	
		50 Hz 48-52 Hz	60 Hz 58-62 Hz				
Pn : Auxiliary power input	Pn rating	P1 120 V	P2 240 V	Py AC 415V / Internal powered / DC powered order on request			
Ln : Phase angle	Ln rating	L1 ± 30°	L2 ± 60°	L3 ± 90°			

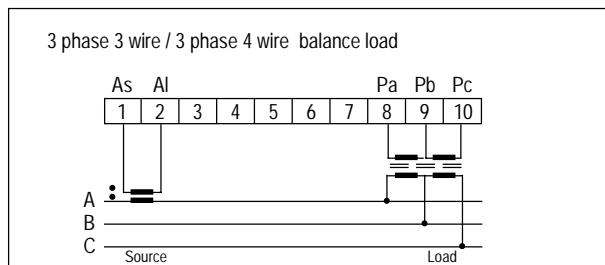
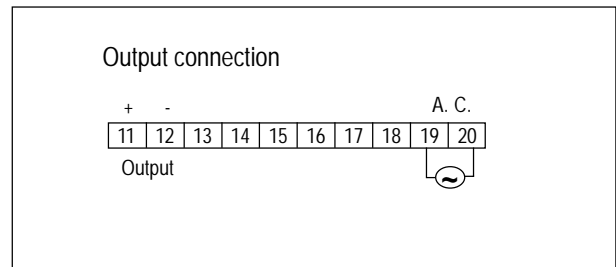
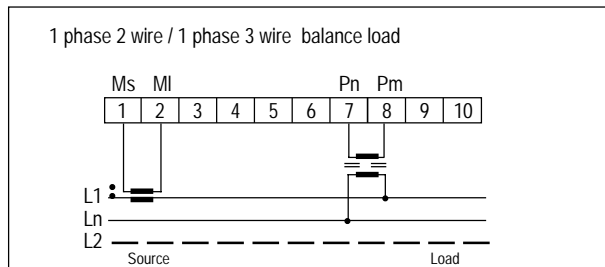
Note :

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

Specification

Accuracy (23± 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± 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, < 3.5VA

Terminals Connection



Note :

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