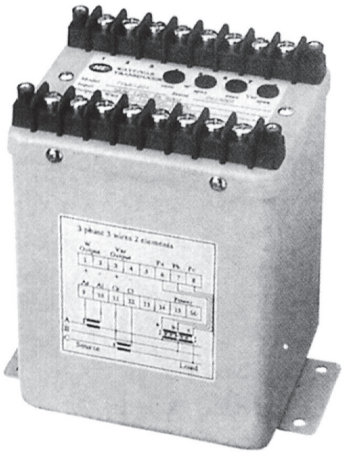
DWG NO. : 06220078
VER : 1.1_26/10/02

WATT / VAR TRANSDUCER

LPWK301



- ◎ High accuracy 0.07% rd + 0.03% ro
- ◎ Excellent long term stability
- ◎ Outstanding over capability and temperature performance
- ◎ Wide selection of input / output ranges
- ◎ Meets ANSI C37.90 (1989) and BEAMA No. 219 tests
- ◎ High magnetic field immunity
- ◎ Real watt - able to measure distorted waveform
- ◎ Isolated between watts and vars output

Order form

LPWK301 ■ ■ ■ ■ ■

Vn **An** **Fn** **Pn** **On**

Example : LPWK301-V1-A2-F2-P1-O3

Input & Output parameters

Vn : Voltage input	**Vn**	**V1**	**V2**	**V3**	**Vy**	**On** : Output		
	rating	120 V	240 V	480 V	Specified	**O1**	**O2**	**O3**
	range	0 - 150 V	0 - 300 V	0 - 600 V		0 - 1 mA	0 - 20 mA	4 - 20 mA
An : Current input	**An**	**A1**	**A2**	**A3**	**Ay**	**O4**	**O5**	**O6**
	rating	1 A	5A	10A	Specified	0 - 1 V	0 - 5 V	0 - 10 V
	range	0 - 1.5 A	0 - 7.5 A	0 - 15 A		**O7**	**Oy**	
Fn : Frequency input	**Fn**	**F1**	**F2**		**Fy**	2 - 10 V	Specified	
	rating	50 Hz	60 Hz		Specified			
	range	48 - 52 Hz	58 - 62 Hz					
Pn : Auxiliary power	**Pn**	**P1**	**P2**	**Ps**	**Py**	**Py** : DC24 / 48 / 125 V ± 15%		
	rating	AC 120 V	AC 240 V	Internal	Specified	or other range under specified		
	range	120 V ± 15%	240 V ± 15%	Powered				

Model	Application system	Std. calibration vs output full span (Watt / Var) = D								
Watt / Var	Elements - Connection	V1 = 120 V			V2 = 240 V			V3 = 480 V		
		1A	5A	10A	1A	5A	10A	1A	5A	10A
LPWK301	3E 3 phase 4 wires, unbalance	300	1.5K	3K	600	3K	6K	1.2K	6K	12K

Note

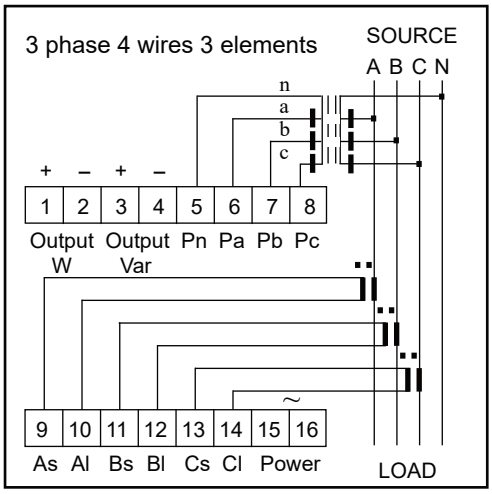
1. Standard output calibration
   bipolar 0 to ± 1mA for 0 to ± D Watts or Vars
   4-12-20mA for -D to 0 to +D Watts or Vars
2. External power mode suitably for all output types
   Internal power mode, only suitably for 0-1mA / 0-20mA / 0-1V / 0-5V / 0-10V output

HSIANG CHENG ELECTRIC CORP.
4F., No.11, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231, Taiwan
TEL：886-2-2917-5865~9 E-mail：expo.sales@hc.com.tw
FAX：886-2-2917-3946 http://www.hc.com.tw

Specification

Accuracy (23 ± 3°C)	0.07% reading / PF ± 0.03% RO		
Maximum output load	DC current mode : maximum 10V drop		
	DC voltage mode : maximum 5mA drive		
Dielectric strength	AC 2KV 1 minute between terminals; AC 2.6KV 1 minute / terminals to case		
Surge and impulse test	ANSI C37.90 / 1989, IEC 255-3 (1989) 4KV 1.2 x 50us		
Maximum input over	Current related input		Voltage related input
	1A / 5A	10A	
	4 x rated / continuous	2 x rated / continuous	1.5 x rated / continuous
	10 x rated / 10 seconds	25 x rated / 1 second	2 x rated / 10 seconds
	50 x rated / 1 second	50 x rated / 0.5 second	
	80 x rated / 0.5 second		
Input burden	Current less 0.2 VA; voltage less 0.1 VA		
Response time & ripple	≦400 ms for step change 0-99% ripple less 0.5% ro peak to peak		
Frequency	50 ± 2 Hz; 60 ± 2 Hz		
Waveform	Watt - 2% 3rd, Var - sinusoidal		
Stability	Temperature range (20 to 26°C) long term stability / year		
	Maximum 60 ppm / °C	less 0.2% draft / year typically ..... LPW	
	Maximum 70 ppm / °C	less 0.2% draft / year typically ..... LPK	
Storage condition	Temperature range -25 to 70°C, RH 20 to 95% non condensed		
Operating condition	Temperature range -20 to 65°C, RH 0 to 99% non condensed		
Magnetic field effect	< 0.01% under 100 ampere turns at 1M center		
Power dissipation	< 7 VA		

Terminal Connection



DC power option for terminal 15 (+), 16 (-)

Dimension

