Minor loop control method driver (for AC current)

Features

- Controls LEM* valve which detects the spool position by a differential transformer to carry out a feed back control (minor feed back).
- Owing to the constant-current characteristics, the variations of supply voltage and of output current by a solenoid temperature rise rarely happen.
- The output radio wave corrugation (dither frequency , amplitude) is set up so that hysteresis of a solenoid proportional control valve and a resolution power can get the best values.
- Since the current is controlled by PWM (pulse width modulation) method, heat generation from driver is restrained to be the smallest.

Specifications

Model code		KF-5-10	KFH-5-10
Supply voltage		AC100V, AC200V, AC220V (50/60Hz)	
Permissible volts variation		-10~+10%	
Applied load		Proportional solenoid (DC24V)	
Command indication		DC0~5V or 1kΩ potentiometer	
Output current		0~850mA	0~1700mA
Power consumption		Max. 55W	Max. 78W
Input impedance		70±5 kΩ	
Trimmer adjustment	MIN	0~2 V or more: Variable	
	MAX	5~1.9 V or less: Variable	
Dither choice		Choose among three kinds; high, mid and low based on the terminal connection	
Surrounding temperature		0~55 C	
Surrounding humidity		25~90%RH	
Weight		3kg	3.3kg

DIN terminal type driver for KSP-G02

Features

- Controls KSP-G02 in optimum conditions.
- Owing to the constant-current characteristics, the variations of supply voltage and of output current by a solenoid temperature rise rarely happen.
- The output radio wave corrugation (dither frequency , amplitude) is set up so that hysteresis of a solenoid proportional control valve and a resolution power can get the best values.
- Since the current is controlled by PWM (pulse width modulation) method, heat generation from driver is restrained to be the smallest.
- As the function (response time adjusting function) to vary the output current slowly for the variation of step like command input is provided, it enables the oil output to vary in shock-less. (for either build-up or pull-down process, each process can be independently adjusted).

Specifications

Model code	ZDN-2-10
Supply voltage	DC24V (Capacity 1.2A or more)
Permissible volts variation	-20~+20%
Applied load	Proportial solenoid (DC12V)
Command indication	DC0~5V
Output current	0~1400mA
Power consumption	Max. 22VA
Dither	Adjusted at the delivery
Response time	0.05~3 seconds or more (at the max. output)
Surrounding temperature	-10~50 C
Surrounding humidity	10~90%RH
Vibration resistant	6.8G (66.6m/sec^2) Frequency:11.7~200Hz 1 cycle: 15min 3 directions: each 2h
Weight	0.3kg