



TYRISTOROVÉ VÝKONOVÉ REGULÁTORY

Série DPU/DPUS

DPU33B-120R

Thyristorový regulátor 120A

- DPU série, 1f/3f regulace do 700 A
- DPUS série, 1f regulace do 25 A
- Vstupní signál U, I nebo potenciometr
- Digitální vstupy a alarmní výstupy
- Rychlá a přesná regulace díky výkonnému CPU



POPIS PRODUKTU

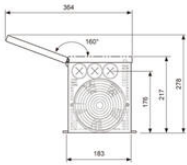
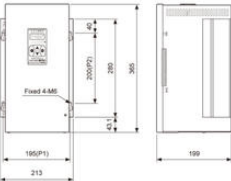
Tyristorové výkonové regulátory série DPU a DPUS (Slim) vynikají rychlou a precizní regulací proudu, napětí a výkonu v jednofázových i třífázových napěťových soustavách. O přesnost se stará výkonný CPU a zpětná vazba s RMS měřením. Regulátory nemají žádné mechanické kontaktní prvky, což přináší dlouhou životnost a bezúdržbovost.

Díky mnoha výstupním režimům a funkcím lze regulovat jak rezistivní (spínání v nule), tak i induktivní (fázové řízení) zátěže. Nejběžnější aplikací je řízení teploty v pecích s odporovými topnými tělesy, ale regulátory je možné použít i v náročnějších aplikacích (např. ovládání traf).

SPECIFIKACE

Certifikace	CE
Hmotnost	11500 g
Komunikace	RS485
Počet fází	3
Proud max.	120 A
Proud min.	1 A
Provozní teplota max.	50 °C
Provozní teplota min.	-10 °C
Spotřeba	Max 10W
Teplota skladování do	80 °C
Teplota skladování od	-20 °C
Typ výstupů	2

• B Size: DPUC-B-70/80/100/120/150/180/200



DPU	1	2	A	025	R
Option	R RS485 communication D Remote Display Unit A Remote Display Unit + RS485 communication N No option				
Rated current capacity	025	25A	200	200A	
	040	40A	250	250A	
	050	50A	350	350A	
	070	70A	400	400A	
	080	80A	500	500A	
	100	100A	600	600A	
	120	120A			
	150	150A			
	180	180A			
		1-phase 3-phase A 0 to 75A 0 to 55A B 80 to 200A 70 to 200A C 250 to 350A D 400 to 600A E Option			
Size					
Power supply	1	110V			
	2	220V			
	3	380V			
	4	440V			
Number of phases	1	1-phase			
	3	3-phase			
Item	DPU Digital Power Controller Unit				

Series	DPUC	
Number of phases	1 phase	3 phase
Power supply	110VAC / 220VAC / 380VAC / 440VAC (FAN and control power 220VAC 50/60Hz separately)	
Allowable voltage	90 to 110% of rated voltage	85 to 110% of rated voltage
Rated frequency	50/60Hz (pulse recognition), allowable frequency range: 40Hz	
Min. load current	1A	
Output range	Phase control: 5 to 98%, Z.C. control: 0 to 100% Phase control: 3 to 98%, Z.C. control: 0 to 100%	Phase control: 3 to 98%, Z.C. control: 0 to 100%
Control method ¹⁾	• Phase control: Normal control(Non-Feedback), static voltage(static current/static power control/feedback) • Cycle control(Z.C.) / Fixed cycle control, Variable cycle control • ON/OFF control(Z.C.)	• Phase control: Normal control(Non-Feedback), static voltage(static current/static power control/feedback) • Cycle control(Z.C.) / Fixed cycle control, Variable cycle control • ON/OFF control(Z.C.)
Load	• Phase control: resistance load, inductive load • ON/OFF: Cycle control: resistance load	• Phase control: resistance load, inductive load • ON/OFF: Cycle control: resistance load
Power consumption	Max. FW (except FAN operation power) • Display value and SV display: 7 Segment 4 digit • Status display: 4 LED • Display value percentage display: 11 LED Bar • Static voltage feedback control: Within ±3% F.S. of rated voltage(within variable ±10% F.S. of rated voltage) • Static current feedback control: Within ±3% F.S. of rated voltage(within variable 1 to 10 times of rated resistance) • Static power feedback control: Within ±3% F.S. of rated voltage(within variable ±10% F.S. of rated voltage and within variable 1 to 10 times of rated resistance) • Normal control: within ±10% F.S. of rated voltage	Max. 10W (except FAN operation power) • Display value and SV display: 7 Segment 4 digit • Status display: 6 LED • Display value percentage display: 11 LED Bar • Static voltage feedback control: Within ±3% F.S. of rated voltage(within variable ±10% F.S. of rated voltage) • Static current feedback control: Within ±3% F.S. of rated voltage(within variable 1 to 10 times of rated resistance) • Static power feedback control: Within ±3% F.S. of rated voltage(within variable ±10% F.S. of rated voltage and within variable 1 to 10 times of rated resistance) • Normal control: within ±10% F.S. of rated voltage
Set method	By front keys, By communication	By front keys, By communication
Control input	• Auto: 4-20mA / 0-20mA / 0-5VDC / 1-5VDC / 0-10VDC / voltage pulse(7-2VDC) / no-voltage input(ON/OFF) / communication input(RS485) • Manual: inside 15kΩ VR, outside 3 to 10kΩ VR (min. 200)	• Auto: 4-20mA / 0-20mA / 0-5VDC / 1-5VDC / 0-10VDC / voltage pulse(7-2VDC) / no-voltage input(ON/OFF) / communication input(RS485) • Manual: inside 15kΩ VR, outside 3 to 10kΩ VR (min. 200)
Digital input(DI)	AUTOMAN switching, RUN/STOP switching, RESET, Output holding, SP setting (SP1 to 6)	AUTOMAN switching, RUN/STOP switching, RESET, Output holding, SP setting (SP1 to 6)
Display content	Control input, load voltage, load current, load power, load resistance, power supply frequency	Control input, load voltage, load current, load power, load resistance, power supply frequency
Min. display output	Min. 3 1/2% of rated voltage/current	Min. 3 1/2% of rated voltage/current
Option output	RS485 communication output(Modbus RTU method), [max. 32 units]	RS485 communication output(Modbus RTU method), [max. 32 units]
Dielectric strength	2000VAC 50/60Hz for 1 min (between input terminal and power terminal)	2000VAC 50/60Hz for 1 min (between input terminal and power terminal)
Vibration	0.75mm amplitude at frequency of 5 to 55Hz (for 1 min.) in each X, Y, Z direction for 2 hours	0.75mm amplitude at frequency of 5 to 55Hz (for 1 min.) in each X, Y, Z direction for 2 hours
Insulation resistance	Min. 20MΩ at 500VDC (meggers)	Min. 20MΩ at 500VDC (meggers)
Noise resistance	Square shaped noise by noise simulator (pulse width 1μs) ±3kV	Square shaped noise by noise simulator (pulse width 1μs) ±3kV
Environment	Ambient temperature: -10 to 50°C, storage: -20 to 60°C Ambient humidity: 5 to 95%RH	Ambient temperature: -10 to 50°C, storage: -20 to 60°C Ambient humidity: 5 to 95%RH
Approval	CE	CE
Unit weight	• A Size: 3.0kg • B Size: 5.5kg • C Size: 11.0kg • D Size: 17.5kg	• A Size: 6.5kg • B Size: 11.5kg • C Size: 20.0 kg • D Size: 35.5 kg