ELECTRIC-SPECIAL
Photronicsysteme GmbH

LUMINOUS FLUX CONTROLLER VARILUMDP LOAD-INDEPENDENT, RATED CURRENT 20, 32, 50, 100 A

- AUTO IGNITION PHASE AT CONTROLLER START-UP
- ADJUSTABLE MINIMUM-CURRENT MONITORING DURING IGNITION
- DELAY FOR NEGATIVE SETPOINT CHANGES
- LUMINOUS-FLUX LIMITS Φ MAX AND Φ MIN ADJUSTABLE

- OPTIMIZED PHASE-ANGLE CONTROL FOR INDUCTIVE LOADS
- OVERRIDE INPUT FOR BYPASS MODE
- INTEGRATED SIMULATOR
- PROFIBUS DP FOR CONTROL AND CONFIGURATION

TECHNICAL DATA:

Power supply:	230V AC ± 15%, 45...63 Hz
Load type:	Inductive load (B ≤ 1.2 tesla)
Continuous load current I_l:	20 A, 35 A, 50 A or 100 A, depending on type
Power loss [VA]:	≈ Pv = 20 W + 1.3 V × Iload
Efficiency η:	≈ 1 - 1.3 V / Umax
Fuse protection:	Ultra-fast semiconductor fuse
Operating mode:	Phase-angle control with soft start
Circuit configurations:	Single-phase operation, star connection with neutral
Control signal:	0/4...20 mA, burden 50 Ω, terminals 1+2, or 20...0/4 mA, burden 50 Ω, terminals 1+2 0...10 V, 25 kΩ, terminals 3+4, or 10...0 V, 25 kΩ, terminals 3+4
Actual-value output:	0...10 V, terminals 6+10
Control:	Load-independent U^2 control
Control accuracy:	With mains variation of ±15%: regulation to ≤0.5%.
Current limitation ILR:	Factory setting $I_l > 0.5 \times I_n$
Fault-signalling relay:	1xU 1A/230VAC
EMC testing:	according to CE requirements
Electrical connection:	Control cables 0.2...2.5 mm²; load connections via cable lugs (DIN 46 212)
Housing:	With anodized heat sink, plastic.
Degree of protection:	IP 00 according to DIN 40 050
Weight:	Type 20A 1.1kg 25, 50A 2.8 kg; type 75, 100 A: 3.7 kg
Mounting position:	Vertical
Cooling:	Natural convection
Temperature range:	Storage temperature 10°C...+70°C Ambient temperature 0°C...+45°C At ambient temperatures above +45°C: Reduce current by 2% for each 1°C temperature increase. Maximum permissible ambient temperature: 60°C.
Electromagnetic compatibility:	DIN EN 61326-1
Emissions:	Class A - for industrial use only
Immunity:	Industrial requirements

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