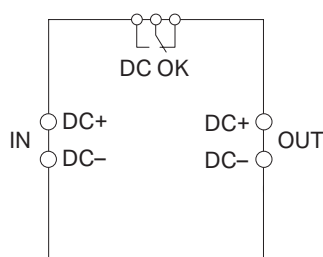
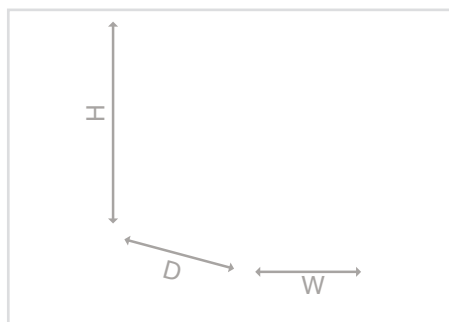


## Capacitive Buffer Module; 24 VDC / 40 A



Capacitive Buffer Module; Input voltage: 24 VDC;  
Output voltage: 24 VDC; Output current: 40 A; Buffer  
time: 0.35 ... 6.6 s

	Item No.	Pack. Unit
	787-916	1



### Features:

- Capacitive buffer module bridges short duration voltage drops or load fluctuations
- Internal diode between input and output enables operation with decoupled output
- Potential-free contact for charge condition monitoring

### Input

Nominal input voltage $U_{i,nom}$	24 VDC
Input voltage range	23 ... 30 VDC
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 0.06$ A (no load running); $\leq 0.8$ A (charging); $\leq 40.8$ A

### Output

Nominal output voltage $U_{o,nom}$	24 VDC
Output voltage range	$U_i - 0.5$ VDC (mains operation; $I_o = 20$ A); $U_i - 0.8$ VDC (mains operation; $I_o = 40$ A); 20 ... 29 VDC (buffer mode)
Nominal output current $I_{o,nom}$	40 A

### Energy Storage Systems

Buffer time	0.3 ... 6.6 s (depends on load current and temperature)
Switch-on threshold (typ.)	22 VDC
Nominal capacity	4.17 F
Nominal voltage	32.4 VDC
Effective energy content (typ.)	500 Ws
Charging time (typ.)	2.5 min

### Signaling and Communication

Signaling	1 x DC OK LED (green); 1 x UPS LED (yellow); 1 x Warning LED (red); 1 x isolated relay contact (max. 30 VDC, 1 A)
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### Efficiency/Power Losses

Power loss $P_i$	$\leq 1.9$ W (operation without decoupled output); $\leq 11.5$ W (operation with decoupled output; $I^0 = 20$ A); $\leq 33.5$ W (operation with decoupled output; $I_o = 40$ A)
Efficiency	$\geq 96.5$ %

### Fuse Protection

Internal fuse	No
Recommended backup fusing	T 40 A

### Safety and Protection/Environmental Requirements

Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	No/no
Life service	74,000 h (+25 °C; $I_o = 40$ A); 28,200 h (+40 °C; $I_o = 40$ A)
Surrounding air temperature (operation)	-10 ... +50 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Pollution degree	2

### Connection Data

Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.75 ... 16 mm² / 0.75 ... 25 mm² / 18 ... 4 AWG
Signaling (solid/fine-stranded/AWG)	0.08 ... 2.5 mm² / 0.08 ... 2.5 mm² / 28 ... 12 AWG

### Geometric Data/Mechanical Data/Material Data

Width x height x depth (mm)	68 x 181 x 162; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail (EN 60715)
Weight	900 g

### Standards and Specifications

Approvals/standards/specifications	CE; EN 62368-1; EN 61000-6-2; EN 61000-6-3; CSA* (*pending)
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