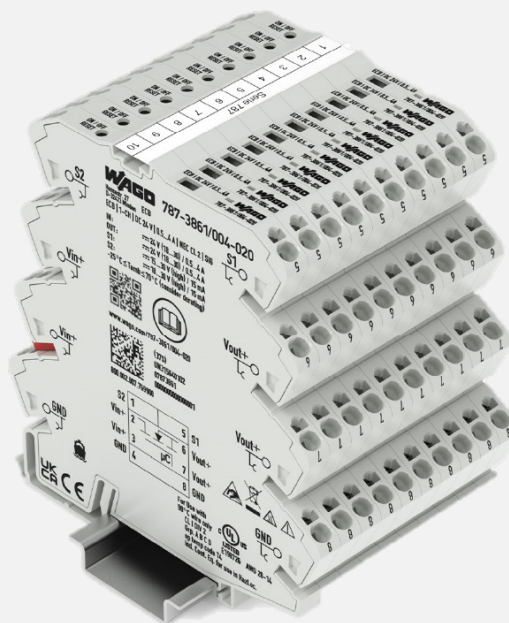




# THE FUTURE OF DC CIRCUIT PROTECTION IS HERE

## WAGO ELECTRONIC CIRCUIT BREAKERS



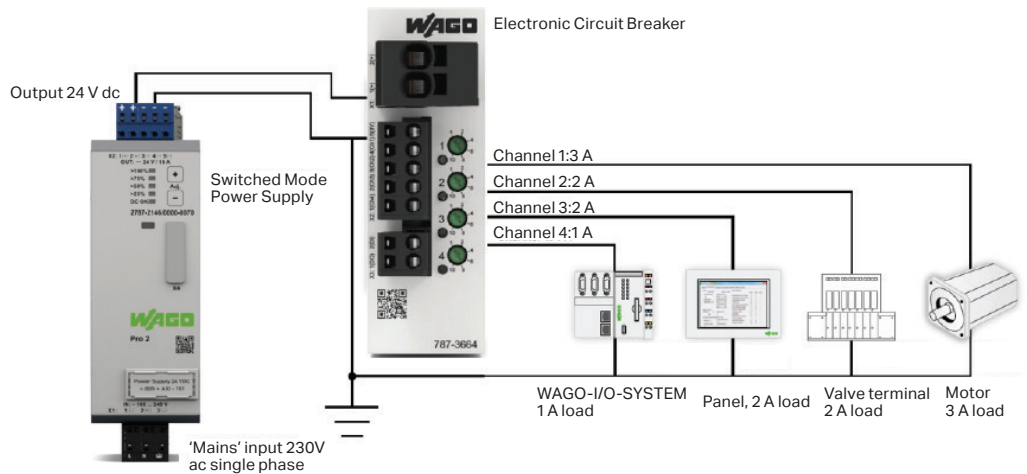
# WAGO ELECTRONIC CIRCUIT BREAKERS

## HIGH SWITCH-ON CAPACITY, COMBINED WITH AN ELECTRONIC RELAY

WAGO ECBs ensure that a fault on one DC circuit is protected whilst ensuring critical automation control equipment, such as a PLC, do not lose power that can result in time consuming re-booting or costly disruption to a process or machine operation.

In the example shown, if a motor overload on channel 1 occurs, with the correct use of a WAGO ECB ensures only that channel is switched off, the PLC on channel 4 is unaffected ensuring overall control is retained.

Furthermore, using the WAGO Compact ECB; 787-3664 with the overload 'pre-alarm' configured, it may even be possible to avoid a trip completely by implementing this valuable condition.



### SAVE ~80% SPACE IN CONTROL CABINET

8 channel ECB just 32mm wide, the slimmest in the market



### PREVENT EXPENSIVE DOWN TIME

Adjustable pre-alarm provides warning of an over current



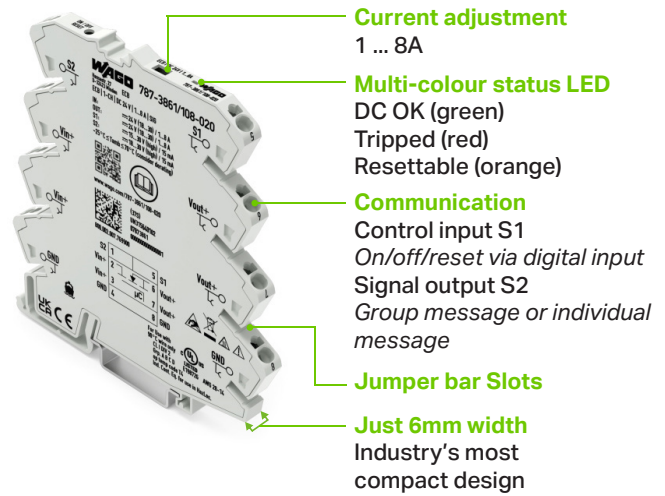
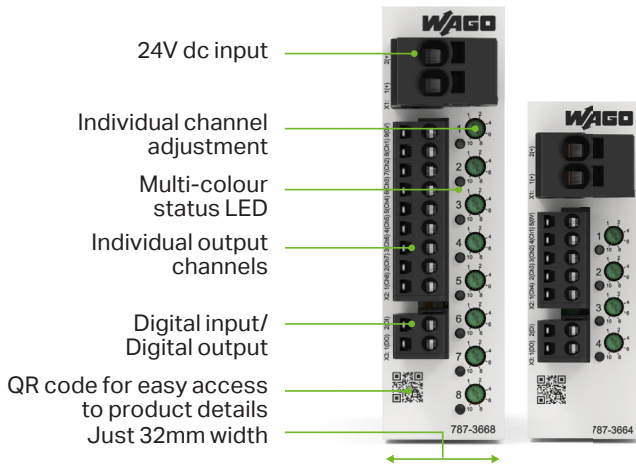
### COMPLIANCE TO EN 60204

Under 5 second disconnection in occurrence of earth fault

Feature	Benefit
Electronic protection	Enables accurate, predictable tripping ensuring fast protection of system
Overcurrent pre-alarm	Allows predictive / planned maintenance
Remote monitoring	Allows monitoring of status
Extremely compact	Saves almost 80% panel space (Typical MCB is 18mm wide compared to 32mm 8 channel WAGO ECB)
Remotely monitored, controllable and resettable	In the event of fault, reduces of downtime and allows reset without entering panel
Compared to fuse, resettable	No spare fuses required
Allows compliance to BS EN 60204 (Safety of Machinery)	Can help ensure ground faults in control circuits are switched off within 5 seconds

# MULTI-CHANNEL COMPACT ECBs SERIES 787-366X

# SLIM SINGLE-CHANNEL ECBs SERIES 787-3861



UL UK CA CE ENE EN 61000-6-2 EN 61000-6-3 UL 61010-2-201 UL 2367


UL UK CA CE ENE

## OVERVIEW OF VARIANTS


Nominal Voltage [V]DC	Number of Channels	Adjustable Nominal Current	Communication	Special Features	Item Number
24	1	05 A	Signal contact	NEC class 2	787-3861/050-1000
		1A	Signal contact	NEC class 2	787-3861/100-1000
		2A	Signal contact	NEC class 2	787-3861/200-1000
		4A	Signal contact	NEC class 2	787-3861/400-1000
		0.5... 4A	Signal contact	NEC class 2	787-3861/004-1020
		0.5A	Signal contact	/	787-3861 /050-000
		1A	Signal contact	/	787-3861/100-000
		2A	Signal contact	/	787-3861 /200-000
		4A	Signal contact	/	787-3861 /400-000
		6A	Signal contact	/	787-3861 /600-000
		8A	Signal contact	/	787-3861 /800-000
		0.5...4A	Signal contact	/	787-3861 /004-020
		1...8A	Signal contact	/	787-3861/108-0020
		/	/	Potential distribution (0V/24V)	787-3861/000-1000
		/	/	Potential distribution (24 V)	787-3861 /000-2000
/	/	Potential distribution (0 V)	787-3861 /000-3000		
24	4	1 ... 10 A	Digital input and output	Parallel operation and key lock	787-3664
24	8	1 ... 10 A	Digital input and output	Parallel operation and key lock	787-3668


# WAGO POWER SUPPLIES THE PERFECT ECB PARTNER

## Eco / Eco 2 – The Affordable Power Supplies



Image	Nominal Input Voltage	Output Current	Efficiency	Signal	Dimensions (W x H x D in mm)	Item No.
1-phase; output voltage: 24 VDC; Eco 2						
	100 ... 240 VAC	1.25 A	≥ 88 %		25 x 90 x 100	2687-2142
	100 ... 240 VAC	2.5 A	≥ 90 %		35 x 100 x 90	2687-2143
	100 ... 240 VAC	5 A	≥ 90 %	DC OK contact	35 x 130 x 130	2687-2144
	100 ... 240 VAC	10 A	≥ 93 %	DC OK contact	50 x 130 x 130	2687-2146

Eco series compliments Eco 2 for larger power application or where 3 phase input required


1-phase; output voltage: 24 VDC						
	110 ... 240 VAC	20 A	≥ 90 %	DC OK signal	115 x 136 x 144	787-734
	110 ... 240 VAC	40 A	≥ 90 %	DC OK signal	170 x 136 x 150	787-736

3-phase; output voltage: 24 VDC						
	(2 / 3) x 400 ... 500 VAC	6.25 A	≥ 87 %	DC OK contact	50 x 130 x 92	787-738
	(2 / 3) x 400 ... 500 VAC	10 A	≥ 89 %	DC OK contact	65 x 130 x 130	787-740
	(2 / 3) x 400 ... 480 VAC	20 A	≥ 90.5 %	DC OK contact	80 x 130 x 170	787-2742
	(2 / 3) x 400 ... 480 VAC	40 A	≥ 91.5 %	DC OK contact	140 x 130 x 170	787-2744

## Pro 2 – High performance, Smart Power Supplies with TopBoost

Image	Nominal Input Voltage	Output Current	Efficiency	MTBF (per IEC 61709)	Dimensions (W x H x D in mm)	Item No.
1-phase; TopBoost + PowerBoost; DI/DO; communication interface; 24 VDC output voltage						
	100 ... 240 VAC	5 A	≥ 93.8 %	> 1,200,000 h	35 x 130 x 130	2787-2144
	100 ... 240 VAC	10 A	≥ 95.3 %	> 1,200,000 h	50 x 130 x 130	2787-2146
	100 ... 240 VAC	20 A	≥ 95.4 %	> 900,000 h	70 x 130 x 130	2787-2147
	200 ... 240 VAC	40 A	≥ 96.1 %	> 900,000 h	120 x 130 x 130	2787-2448
3-phase; TopBoost + PowerBoost; DI/DO; communication interface; 24 VDC output voltage						
	3 x 400 ... 500 VAC	5 A	≥ 92.5 %	> 1,400,000 h	35 x 130 x 130	2787-2344
	3 x 400 ... 500 VAC	10 A	≥ 95.3 %	> 1,200,000 h	50 x 130 x 130	2787-2346
	3 x 400 ... 500 VAC	20 A	≥ 95.9 %	> 900,000 h	70 x 130 x 130	2787-2347
	3 x 400 ... 500 VAC	40 A	≥ 96.3 %	> 800,000 h	120 x 130 x 130	2787-2348

## ACCESSORIES

Image	Description	Item No.
	IO-Link Communication Module	2789-9080
	Modbus RTU Communication Module	2789-9015
	Ethernet/Modbus TCP/Modbus UDP Communication Module	2789-9052
	Ethernet/IP® Communication Module; MQTT	2789-9023

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