

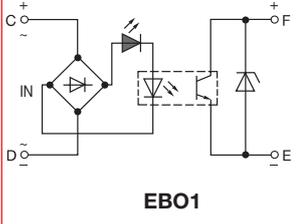
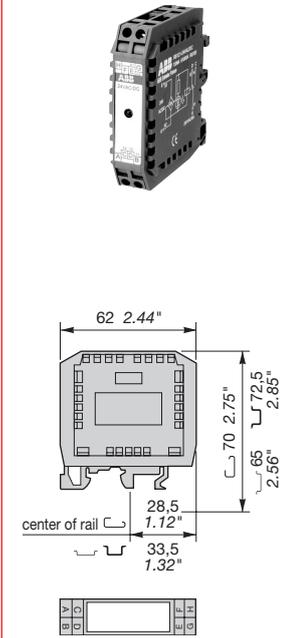
# Electronic Interfaces

## R1800 optocoupler modules DIN 3

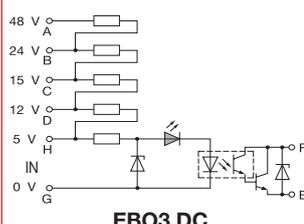
### EBO... - 2.5 mm<sup>2</sup> blocks - 18 mm .709" spacing

#### Characteristics

Opto. characteristics	EBO1 - 24 V		EBO1 - 127-220 V		EBO3 DC				
<b>INPUT</b>									
Input voltage	24 V AC	24 V DC	127 V AC/DC	220 V AC/DC	5 V DC	12 V DC	15 V DC	24 V DC	48 V DC
Frequency			50 / 60 Hz	50 / 60 Hz					
Input current	10 mA	8 mA	6 mA	5 mA			11 mA		
Pull-in voltage at Is=100%	12 V AC	16 V DC	88 V AC	128 V AC	4 V	9.6 V	12 V	19.2 V	38.4 V
Switching time C / O	10 ms / 7 ms				20 µs / 80 µs				
Operating frequency	30 Hz				500 Hz				
Permissible leakage current									
<b>OUTPUT</b>									
Output voltage	4.5 to 58 V DC				4.5 to 53 V DC				
Output current min.	1 mA				0.5 mA				
Output current max.	100 mA				50 mA				
Output leakage current at Umax.	< 50 µA				< 50 µA				
Residual voltage at I max and U rated	typical 1 V				1 V				
	max. 1.3 V				1.3 V				
Frequency on inductive load									
Isolation Input / Output	2500 V RMS				2500 V RMS				
<b>TEMPERATURE</b>									
Ambient temperature storage	- 40°C to + 80°C								
operating	See derating curves								
<b>Other characteristics</b>									
Body material	grey <input type="checkbox"/>				UL 94 V0				
Wire	Solid wire				0.2-4 mm <sup>2</sup> / 22-12 AWG				
size	Stranded wire				0.22-2.5 mm <sup>2</sup> / 22-12 AWG				
Rated wire size					2.5 mm <sup>2</sup> / 12 AWG				
Wire stripping length					7 mm .276"				
Recommended screwdriver					3.5 .137"				
Protection					IP 20 NEMA 1				
Recommended torque					0.4-0.6 Nm				
Approvals									
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.								

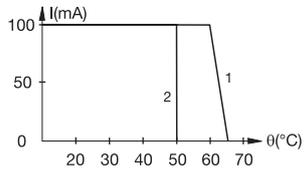


**EBO1**



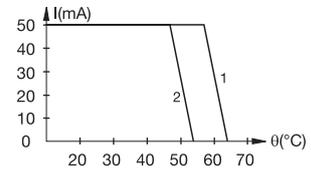
**EBO3 DC**

#### Derating curves



**EBO1**

- 1 : 24 V AC/DC model
- 2 : 127-230 V AC/DC model



**EBO3 DC**

- 1 : 5 to 24 V DC model
- 2 : 48 V DC model

#### Order codes

Description	Type	Order P/N	Packaging	Weight kg
Optocoupler module 24 V AC/DC	EBO1-24VAC/DC	1SNA 610 022 R2000	1	0.03
Optocoupler module 127 V AC/DC	EBO1-127VAC/DC	1SNA 610 108 R1400	1	0.03
Optocoupler module 220 V AC/DC	EBO1-220VAC/DC	1SNA 610 023 R2100	1	0.03
Optocoupler module 5-12-15-24-48 V DC	EBO3 DC	1SNA 610 230 R1100	1	0.03

#### Accessories

High end stop	BAMH 9,1 mm	1SNA 114 836 F0000	50
	BAMH V0 9,1 mm	1SNA 194 836 F0100	50
	BADH 12 mm	1SNA 116 900 F2700	50
Lengthwise marker	RLV	1SNA 103 849 F0300	
Marking method	RC55	see marking	

