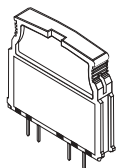
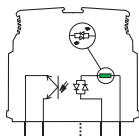


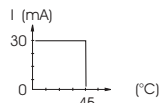
### Input optocoupler plugs



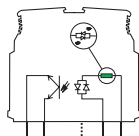
#### 5 V DC



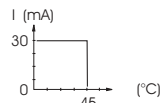
Derating curve



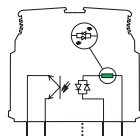
#### 24 V DC



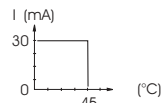
Derating curve



#### 48 V DC



Derating curve



### Part number

Type	P/N	Type	P/N	Type	P/N
BNMS T5V-1	0031 831.03	BNMS T24V-1	0031 800.21	BNMS T48V-1	0031 801.16

### Characteristics

#### INPUT

	5 V DC	24 V DC	48 V DC
Voltage	4,5 V to 5,5 V DC	19,2 V to 27,6 V DC	38,4 V to 55,2 V DC
Max. current	6 mA	5 mA	4,1 mA
Typical triggering threshold at Is = 100%	3,5 V	12 V DC	21 V DC
Switching time C/O	20 μs / 1,3 ms	20 μs / 1,3 ms	20 μs / 1,3 ms
Leakage current		1 mA	0,8 mA

#### OUTPUT

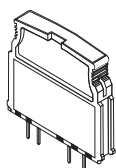
	5 V DC	24 V DC	48 V DC
Max. voltage. / Max. current	58 V / 30 mA	58 V / 30 mA	58 V / 30 mA
Residual voltage max. I and rated V standard	2,3 V DC	2,3 V DC	2,3 V DC
max.	2,7 V DC	2,7 V DC	2,7 V DC
Input / Output isolation	2,5 kV	2,5 kV	2,5 kV

#### TEMPERATURE

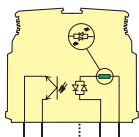
	5 V DC	24 V DC	48 V DC
Storage	- 30°C to + 80°C	- 30°C to + 80°C	- 30°C to + 80°C
Operating	- 20°C to + 45°C	- 20°C to + 45°C	- 20°C to + 45°C

Body color	5 V DC	24 V DC	48 V DC
	White	White	White

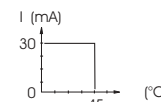
### Input optocoupler plugs



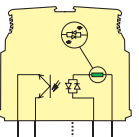
#### 24 V AC



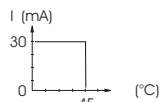
Derating curve



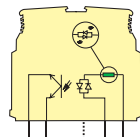
#### 48 V AC



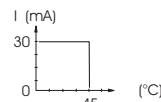
Derating curve



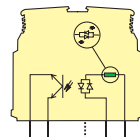
#### 115 V AC



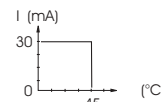
Derating curve



#### 230 V AC



Derating curve



### Part number

Type	P/N	Type	P/N	Type	P/N	Type	P/N
BNMS T24V-1	0031 802.17	BNMS T48V-1	0031 803.10	BNMS T115V-1	0031 804.11	BNMS T230V-1	0031 805.12

### Characteristics

#### INPUT

	24 V AC	48 V AC	115 V AC	230 V AC
Voltage	20,4 V to 26,4 V AC	40,8 V to 52,8 V AC	98 V to 126,5 V AC	195,5 V to 253 V AC
Max. current	8,5 mA	4,5 mA	8 mA	7 mA
Typical triggering threshold at Is = 100%	13 V AC	22 V AC	50 V AC	95 V AC
Switching time C/O	6 ms / 10 ms	6 ms / 10 ms	6 ms / 10 ms	6 ms / 10 ms
Leakage current	1 mA	1 mA	2 mA	2 mA

#### OUTPUT

	24 V AC	48 V AC	115 V AC	230 V AC
Max. voltage. / Max. current	58 V / 30 mA	58 V / 30 mA	58 V / 30 mA	58 V / 30 mA
Residual voltage max. I and rated V standard	2,3 V DC	2,3 V	2,3 V	2,3 V
max.	2,7 V DC	2,7 V	2,7 V	2,7 V
Input / Output isolation	2,5 kV	2,5 kV	2,5 kV	2,5 kV

#### TEMPERATURE

	24 V AC	48 V AC	115 V AC	230 V AC
Storage	- 30°C to + 80°C	- 30°C to + 80°C	- 30°C to + 80°C	- 30°C to + 80°C
Operating	- 20°C to + 45°C	- 20°C to + 45°C	- 20°C to + 45°C	- 20°C to + 45°C

Body color	24 V AC	48 V AC	115 V AC	230 V AC
	Yellow	Yellow	Yellow	Yellow