

### Contactors four power poles, 4 NC BF series



BF18 TO...

Order code	IEC rated conventional free air thermal current I <sub>th</sub>			Qty per pkg	Wt [kg]
	≤40°C	≤55°C	≤60°C		
	[A]	[A]	[A]	n°	[kg]

AC COIL.

Terminals: clamp screw.

<b>BF18 TO A</b>	32	26	23	1	0.340
<b>BF26 TO A</b>	45	36	32	1	0.420

DC COIL.

Terminals: clamp screw.

<b>BF18 TO D</b>	32	26	23	1	0.470
<b>BF26 TO D</b>	45	36	32	1	0.540

DC COIL. Low consumption (2.4W).

Terminals: clamp screw.

<b>BF18 TO L</b>	32	26	23	1	0.470
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### Operational characteristics

Type	UL/CSA	Protection fuse		Conductor section	
	General use	IEC gG	ULRK5	[mm <sup>2</sup> ]	[AWG]
	[A]	[A]	[A]	[mm <sup>2</sup> ]	[AWG]

BF18 TO	32	40	80	1-6	16-10
BF26 TO	45	50	150	1.5-10	14-6

### Certifications and compliance

Certifications obtained: EAC, CCC, RINA; UL Listed for USA and Canada (cULus - File E93602) and CSA certified for Canada (File 54332), as Motor Controllers - Contactors. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1, UL508, CSA C22.2 n° 14.

Plastic materials are compliant with standards IEC/EN 60335; for BF18 and BF26 versions only, add suffix V260 to the standard product order code.

Example: BF18 TO A230 V260 for BF18, four NC main poles, 230VAC 50/60Hz coil with compliant plastic materials).

NOTE: The BF18-BF26 TOD and BF18 TOL types have a standard supplied built-in TVS (Transient Voltage Suppressor).

### Contactors four NO power poles to connect in series for photovoltaic applications BF series



BFD80 40...

Order code	IEC rated operational current in DC1 ≤55°C	Qty per pkg	Wt [kg]
	[A]		
	[A]	n°	[kg]

AC COIL.

Terminals: lug clamp (IEC pillar terminal).

<b>11BFD80 40</b>	125	1	1.440
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DC COIL.

Terminals: lug clamp (IEC pillar terminal).

<b>11BFD80 C 40</b>	125	1	1.910
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- ① Complete with coil voltage digit if 50/60Hz or with voltage digit followed by 60 if 60Hz. Standard voltages are:
  - AC 50/60Hz 024 / 048 / 110 / 230 / 400V
  - AC 60Hz 024 60 / 048 60 / 120 60 / 220 60 / 230 60 / 460 60 / 575 60 (V).

Example: BF18 TO A230 for contactor BF18 TO, 4 NC power poles, with 230VAC 50/60Hz.  
11 BFD80 40 024 for contactor BFD80 40, 4 NO power poles, with 24VAC 50/60Hz for photovoltaic application.

- ② Complete with coil voltage digit. Standard voltages are:
  - DC 012 / 024 / 048 / 060 / 110 / 125 / 220V.

Example: BF18 TO D012 for contactor BF18 TO, 4 NC power poles, with 12VDC coil.  
③ Low-consumption version. Complete the order code with coil voltage digit. Standard voltages are as follows:
 

- DC 024 / 048V.

Example: BF18 TO L024 for contactor BF18 TO, 4 NC power poles, with 24VDC low-consumption coil.

- ④ Maximum combinations of add-on blocks are given on page 2-19.
- ⑤ For use at this other current value, a 16mm<sup>2</sup> cable, headed with a fork terminal, must be used.

### General characteristics

The contactors are specifically made with magnetic elements in the arc extinction chambers to obtain high DC load operational capabilities. They are used to disconnect and isolate the load between the photovoltaic panel and the AC/DC inverter.

For add-on contact blocks, accessories and spare parts, consider indications of the corresponding standard BF80 types (11BF80 40... and 11 BF80C 40...).

### Italian Fire Department Directives

These directives provide for an disconnecting device for all current-carrying elements, that can be operated by remote control switch, placed in an easily reached and marked position, in order to safely isolate each part of the installation within the fire system compartment including the photovoltaic (PV) generator.

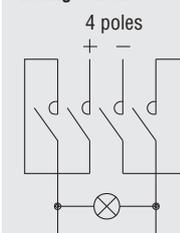
As an alternative, the PV generator must be installed, either externally of the fire system compartment or internally but in a dedicated compartment with adequate fire-resistant features. For such function, specifically designed contactors for on-load use in IEC DC1 duty up to 1000VDC are available.

### Operational characteristics

Use in IEC DC1 duty

Type	IEC operational voltage U <sub>e</sub>			
	400V	600V	800V	1000V
BFD80...	IEC max current I <sub>e</sub> in DC1 with L/R ≤1ms with 4 poles in series			
	[A]	[A]	[A]	[A]
BFD80...	125	125	95	75

### Wiring scheme



Compliant with standards: IEC/EN 60947-1, IEC IEC/EN 60947-4-1.