

Product designation				Power contactor
Product type designation				BF26
<b>Contact characteristics</b>				
Number of poles	Nr.			4
Rated insulation voltage $U_i$ IEC/EN	V			690
Rated impulse withstand voltage $U_{imp}$	kV			6
Operational frequency	min	Hz	25	
	max	Hz	400	
IEC Conventional free air thermal current $I_{th}$	A			45
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A	45	
	AC-1 ( $\leq 55^\circ\text{C}$ )	A	36	
	AC-1 ( $\leq 70^\circ\text{C}$ )	A	32	
	AC-3 ( $\leq 440\text{V}$ $\leq 55^\circ\text{C}$ )	A	26	
	AC-4 (400V)	A	11.5	
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V	kW	17	
	400V	kW	30	
	500V	kW	37	
	690V	kW	51	
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A	25	
	48V	A	21	
	75V	A	18	
	110V	A	6	
	220V	A	–	
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A	28	
	48V	A	28	
	75V	A	25	
	110V	A	22	
	220V	A	2	
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	$\leq 24\text{V}$	A	28	
	48V	A	28	
	75V	A	25	
	110V	A	24	
	220V	A	20	
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series	$\leq 24\text{V}$	A	28	
	48V	A	28	
	75V	A	25	
	110V	A	24	
	220V	A	26	
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A	18	
	48V	A	15	
	75V	A	13	
	110V	A	2	
	220V	A	–	
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A	20	

	48V	A	20
	75V	A	18
	110V	A	13
	220V	A	3
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	≤24V	A	25
	48V	A	25
	75V	A	20
	110V	A	18
	220V	A	19
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	≤24V	A	30
	48V	A	30
	75V	A	25
	110V	A	20
	220V	A	15
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Short-time allowable current for 10s (IEC/EN60947-1)		A	210
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Protection fuse	gG (IEC)	A	50
	aM (IEC)	A	32
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Making capacity (RMS value)		A	260
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Breaking capacity at voltage	440V	A	208
	500V	A	184
	690V	A	168
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Resistance per pole (average value)		mΩ	2
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Power dissipation per pole (average value)	I <sub>th</sub>	W	4
	AC3	W	1.4
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Tightening torque for terminals	min	Nm	2.5
	max	Nm	3
	min	I <sub>bin</sub>	1.8
	max	I <sub>bin</sub>	2.2
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Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	I <sub>bin</sub>	Prodotti finiti
	max	I <sub>bin</sub>	Prodotti finiti
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Max number of wires simultaneously connectable		Nr.	2
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Conductor section	Flexible w/o lug conductor section		
	min	mm <sup>2</sup>	2.5
	max	mm <sup>2</sup>	16
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	Flexible c/w lug conductor section		
	min	mm <sup>2</sup>	1
	max	mm <sup>2</sup>	10
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	Flexible with insulated spade lug conductor section		
	min	mm <sup>2</sup>	1
	max	mm <sup>2</sup>	10
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Power terminal protection according to IEC/EN 60529			IP20 when wired

### Mechanical features

#### Operating position

	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	666
<b>Operations</b>			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1			
	rated load mechanical load	cycles cycles	1600000 20000000
Mirror contacts according to IEC/EN 60947-4-1			Yes
EMC compatibility			Yes
<b>DC coil operating</b>			
DC rated control voltage		V	24
DC operating voltage			
pick-up		min %Us	80
		max %Us	110
drop-out		min %Us	10
		max %Us	40
Average coil consumption ≤20°C			
	in-rush holding	W W	2.4 2.4
<b>Max cycles frequency</b>			
Mechanical operation		cycles/h	3600
<b>Operating times</b>			
Average time for Us control in AC			
	Closing NO	min ms	8
		max ms	24
	Opening NO	min ms	5
		max ms	15
	Closing NC	min ms	9
		max ms	20
	Opening NC	min ms	9
		max ms	17
in DC			
	Closing NO	min ms	76
		max ms	92
	Opening NO	min ms	16
		max ms	20
<b>UL technical data</b>			
Full-load current (FLA) for three-phase AC motor			
	at 480V	A	21
	at 600V	A	22

Yielded mechanical performance

for single-phase AC motor

110/120V	HP	2
230V	HP	5

for three-phase AC motor

200/208V	HP	7.5
220/230V	HP	7.5
460/480V	HP	15
575/600V	HP	20

General USE

Contactor

AC current	A	45
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Short-circuit protection fuse, 600V

High fault

Short circuit current	kA	100
Fuse rating	A	100
Fuse class		J

Standard fault

Short circuit current	kA	5
Fuse rating	A	100

Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

min	°C	-60
max	°C	80

Max altitude

m	3000
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Resistance & Protection

Pollution degree

3

Dimensions

Wiring diagrams

Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching