

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
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
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
Short-time allowable current for 10s (IEC/EN60947-1)		A	210
Protection fuse			
	gG (IEC)	A	50
	aM (IEC)	A	32
Making capacity (RMS value)		A	260
Breaking capacity at voltage			
	440V	A	208
	500V	A	184
	690V	A	168
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	I <sub>th</sub>	W	4
	AC3	W	1.4
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
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
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
Flexible w/o lug conductor section			
	min	mm <sup>2</sup>	2.5
	max	mm <sup>2</sup>	16
Flexible c/w lug conductor section			
	min	mm <sup>2</sup>	1
	max	mm <sup>2</sup>	10
Flexible with insulated spade lug conductor section			
	min	mm <sup>2</sup>	1
	max	mm <sup>2</sup>	10
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	660
<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	125
DC operating voltage			
pick-up		min	%Us 80
		max	%Us 125
drop-out		min	%Us 10
		max	%Us 40
Average coil consumption ≤20°C			
	in-rush holding	W W	5.4 5.4
<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 54
		max	ms 66
	Opening NO	min	ms 14
		max	ms 17
<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