

Product designation				Power contactor
Product type designation				BF26
<b>Contact characteristics</b>				
Number of poles	Nr.			3
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-3 ( $T \leq 55^\circ\text{C}$ )	230V	kW	7.3	
	400V	kW	13	
	415V	kW	14	
	440V	kW	14	
	500V	kW	15.6	
	690V	kW	18.5	
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				

	≤24V	A	18
	48V	A	15
	75V	A	13
	110V	A	2
	220V	A	–
<hr/>			
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	≤24V	A	20
	48V	A	20
	75V	A	18
	110V	A	13
	220V	A	3
<hr/>			
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
<hr/>			
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
<hr/>			
Short-time allowable current for 10s (IEC/EN60947-1)		A	210
<hr/>			
Protection fuse	gG (IEC)	A	50
	aM (IEC)	A	32
<hr/>			
Making capacity (RMS value)		A	260
<hr/>			
Breaking capacity at voltage	440V	A	208
	500V	A	184
	690V	A	168
<hr/>			
Resistance per pole (average value)		mΩ	2
<hr/>			
Power dissipation per pole (average value)	I <sub>th</sub>	W	4
	AC3	W	1.4
<hr/>			
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
<hr/>			
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
<hr/>			
Max number of wires simultaneously connectable		Nr.	2
<hr/>			
Conductor section	Flexible w/o lug conductor section		
	min	mm <sup>2</sup>	2.5
	max	mm <sup>2</sup>	16
<hr/>			
	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
<b>Mechanical features</b>			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	436
<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	1600000
		cycles	20000000
Mirror contacts according to IEC/EN 60947-4-1			Yes
EMC compatibility			Yes
<b>AC coil operating</b>			
Rated AC voltage at 50/60Hz		V	400
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			
	min	%Us	85
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush holding	VA	75
		VA	9
of 50/60Hz coil powered at 60Hz			
	in-rush holding	VA	70
		VA	6.5
of 60Hz coil powered at 60Hz			
	in-rush holding	VA	75
		VA	9
Dissipation at holding ≤20°C 50Hz			W 2.5
<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

**UL technical data**

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
------------	---	----

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
---	------

**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