

Product designation				Power contactor
Product type designation				BF26
Contact characteristics				
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	–
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IEC max current I _e 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
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IEC max current I _e 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 _e 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 _{th}	W	4
	AC3	W	1.4
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Tightening torque for terminals	min	Nm	2.5
	max	Nm	3
	min	I _{bin}	1.8
	max	I _{bin}	2.2
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Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	I _{bin}	Prodotti finiti
	max	I _{bin}	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 ²	2.5
	max	mm ²	16
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	Flexible c/w lug conductor section		
	min	mm ²	1

	max	mm ²	10
Flexible with insulated spade lug conductor section			
	min	mm ²	1
	max	mm ²	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	420
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1600000
	mechanical load	cycles	20000000
Mirror contacts according to IEC/EN 609474-4-1			Yes
EMC compatibility			Yes
Rated AC voltage at 60Hz		V	460
AC coil operating			
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	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	VA	75
	holding	VA	9
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	70
	holding	VA	6.5
of 60Hz coil powered at 60Hz			
	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz			W 2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
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			

Opening NC	min	ms	9
	max	ms	20
	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
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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