



Product designation
Product type designation

Power contactor
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			
	$\leq 24\text{V}$	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_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series			
	$\leq 24\text{V}$	A	25
	48V	A	25
	75V	A	20
	110V	A	18
	220V	A	19
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 4 poles in series			
	$\leq 24\text{V}$	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)		m Ω	2
Power dissipation per pole (average value)			
	I _{th}	W	4
	AC-3	W	1.4
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	I _{bin}	1.8
	max	I _{bin}	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	I _{bin}	0.8

		max	lbin	0.74
Max number of wires simultaneously connectable			Nr.	2
Conductor section	AWG/Kcmil	max		6
Flexible w/o lug conductor section		min	mm ²	2.5
		max	mm ²	16
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 properly wired

Mechanical features

Operating position		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	429
Conductor section	AWG/kcmil conductor section	max		6

Operations

Mechanical life		cycles		20000000
Electrical life		cycles		1600000

Safety related data

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

AC coil operating

Rated AC voltage at 50/60Hz			V	42
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	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 $\leq 20^{\circ}\text{C}$ 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			
		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	$^{\circ}\text{C}$	-50

	max	°C	70
Storage temperature	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3