

Product designation				Power contactor
Product type designation				11BF70K
<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	8	
Operational frequency	min	Hz	25	
	max	Hz	400	
IEC Conventional free air thermal current $I_{th}$		A	125	
Rated operational power AC-6b ( $T \leq 40^\circ C$ )	230V	kvar	30	
	400V	kvar	50	
	440...480V	kvar	56	
	690V	kvar	65	
Short-time allowable current for 10s (IEC/EN60947-1)		A	480	
Protection fuse		gG (IEC)	A	125
			m $\Omega$	0.8
Resistance per pole (average value)				
Tightening torque for terminals	min	Nm	4	
	max	Nm	5	
	min	lbin	2.95	
	max	lbin	3.7	
Tightening torque for coil terminal	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	
	max	lbin	0.74	
Max number of wires simultaneously connectable		Nr.	1	
Conductor section	AWG/Kcmil			
		max	2/0	
Flexible w/o lug conductor section	min	mm <sup>2</sup>	6	
	max	mm <sup>2</sup>	50	
Flexible c/w lug conductor section	min	mm <sup>2</sup>	6	
	max	mm <sup>2</sup>	50	
Power terminal protection according to IEC/EN 60529			IP20 front	
<b>Mechanical features</b>				
Operating position		normal allowable	Vertical plan $\pm 30^\circ$	
	Fixing		Screw / DIN rail 35mm	
Weight		g	1462	
Conductor section	AWG/kcmil conductor section			
		max	2/0	
<b>Operations</b>				
Electrical life		cycles	200000	
<b>Safety related data</b>				

Performance level B10d according to EN/ISO 13489-1

	rated load	cycles	200000
Mirror contacts according to IEC/EN 609474-4-1			YES
EMC compatibility			yes

**AC coil operating**

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	40
max	%Us	55

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

in-rush	VA	200
holding	VA	18

of 50/60Hz coil powered at 60Hz

in-rush	VA	200
holding	VA	15

of 60Hz coil powered at 60Hz

in-rush	VA	220
holding	VA	18

Dissipation at holding ≤20°C 50Hz

W	6
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**Max cycles frequency**

Mechanical operation

cycles/h	3600
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**Operating times**

Average time for Us control

in AC

Closing NO

min	ms	13
max	ms	28

Opening NO

min	ms	6
max	ms	19

in DC

Closing NO

min	ms	40
max	ms	85

Opening NO

min	ms	20
max	ms	55

**Ambient conditions**

Temperature

Operating temperature

min	°C	-50
max	°C	70

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Storage temperature

min	°C	-60
max	°C	80

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Max altitude

m	3000
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**Resistance & Protection**

Pollution degree

3

**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

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Certificates

CCC

cULus

EAC