



Product designation	Power contactor		
Product type designation	11BF80		
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage U _i IEC/EN	V	1000	
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	
Operational current I _e	AC-1 (≤40°C)	A	125
	AC-3 (≤440V ≤55°C)	A	80
	AC-4 (400V)	A	38
Rated operational power AC-1 (T≤40°C)	230V	kW	47
	400V	kW	82
	500V	kW	108
	690V	kW	128
Short-time allowable current for 10s (IEC/EN60947-1)	A	480	
Protection fuse	gG (IEC)	A	160
	aM (IEC)	A	80
Making capacity (RMS value)	A	1200	
Breaking capacity at voltage	440V	A	1200
	500V	A	1050
	690V	A	800
Resistance per pole (average value)	mΩ	0.6	
Power dissipation per pole (average value)	I _{th}	W	9.4
	AC3	W	3.8
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	lbft	0.8
	max	lbft	0.74
Max number of wires simultaneously connectable	Nr.	1	
Conductor section	Flexible w/o lug conductor section		

	min	mm ²	6
	max	mm ²	50
Flexible c/w lug conductor section			
	min	mm ²	6
	max	mm ²	50
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	1360
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	1300000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1300000
	mechanical load	cycles	15000000
Mirror contacts according to IEC/EN 60947-4-1			Yes
EMC compatibility			Yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	230
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	80
	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
DC coil operating			
Average coil consumption ≤20°C			
	in-rush	W	45
	holding	W	75

Max cycles frequency

Mechanical operation cycles/h 3600

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

UL technical data

Full-load current (FLA) for three-phase AC motor

at 480V	A	77
at 600V	A	77

Yielded mechanical performance

for three-phase AC motor

200/208V	HP	25
220/230V	HP	30
460/480V	HP	60
575/600V	HP	75

General USE

Contactor

AC current	A	125
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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

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

CSA

cULus

EAC