

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ,



Product designation Power contactor Product type designation **BF80** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency min Н 25 Hz 400 max IEC Conventional free air thermal current Ith 115 Α Operational current le AC-1 (≤40°C) Α 115 AC-1 (≤55°C) Α 95 AC-1 (≤70°C) Α 80 AC-3 (≤440V ≤55°C) Α 80 AC-4 (400V) 38 Rated operational power AC-3 (T≤55°C) kW 22 230V 400V kW 45 415V kW 45 440V kW 45 500V kW 55 690V kW 55 1000V kW 37 Rated operational current AC-3 (T≤55°C) 230V Α 80 400V Α 80 415V 80 Α 440V Α 80 500V 78 690V 57 Α 1000V Α 28 Rated operational power AC-1 (T≤40°C) 230V kW 43 400V kW 76 500V kW 95 690V kW 120 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V 70 Α 48V Α 60 75V Α 60 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 100





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ,

	48V	Α	100
	75V	Α	100
	110V	Α	80
	220V	Α	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201		
120 max current le in 201 with 2/1 = mis with 3 poles in series	≤24V	۸	100
		A	
	48V	Α	100
	75V	Α	100
	110V	Α	85
	220V	Α	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	100
	48V	Α	100
	75V	Α	100
	110V	A	100
	220V	Α	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	40
	48V	Α	30
	75V	Α	30
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
TEC max current le in DC3-DC3 with L/N = 13ms with 2 poles in series	40 AV /		0.0
	≤24V	Α	60
	48V	Α	50
	75V	Α	50
	110V	Α	40
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
•	≤24V	Α	80
	48V	A	70
	75V		
		A	70
	110V	Α	60
	220V	Α	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	90
	48V	Α	90
	75V	Α	90
	110V	Α	75
	220V	Α	80
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	640
·			040
Protection fuse	~O (IFO)	Λ	405
	gG (IEC)	Α	125
	aM (IEC)	A	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage			
	440V	Α	640
	500V	Α	625
	690V	A	456
Resistance per pole (average value)	030 v	mΩ	0.6
Resistance per pole (average value)		11122	0.0
Power dissipation per pole (average value)	• • •		7.0
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ, 24VAC

		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529	Пах		IP20 front
Mechanical features	Alon docording to ILO/LIN 00020			20 110110
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			α	1020
Conductor section			g	1020
Conductor Section	AWG/kcmil conductor section			
	AVVG/KCITIII CONDUCTOR Section	may		2
Operations		max		2
Operations Mechanical life			ovoloo.	15000000
			cycles	
Electrical life			cycles	1300000
Safety related data	10-1			
Performance level B1	l0d according to EN/ISO 13489-1			
				400000
		rated load	cycles	1300000
		rated load mechanical load	cycles cycles	15000000
	ing to IEC/EN 609474-4-1		-	15000000 yes
EMC compatibility	ing to IEC/EN 609474-4-1		-	15000000
EMC compatibility AC coil operating			cycles	15000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at 6			-	15000000 yes
EMC compatibility AC coil operating	60Hz		cycles	15000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz		cycles	15000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at 6	60Hz		V	15000000 yes yes 24
EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz		v V	15000000 yes yes 24
EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz	mechanical load	V	15000000 yes yes 24
EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz	mechanical load	v V	15000000 yes yes 24
EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up	mechanical load	v V %Us %Us %Us	15000000 yes yes 24 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max	v V %Us %Us	15000000 yes yes 24 80 110
EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min	v V %Us %Us %Us	15000000 yes yes 24 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min	v V %Us %Us %Us	15000000 yes yes 24 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min	v V %Us %Us %Us	15000000 yes yes 24 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max	v %Us %Us %Us %Us	15000000 yes yes 24 80 110 20 55





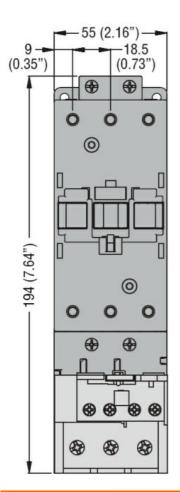
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ,

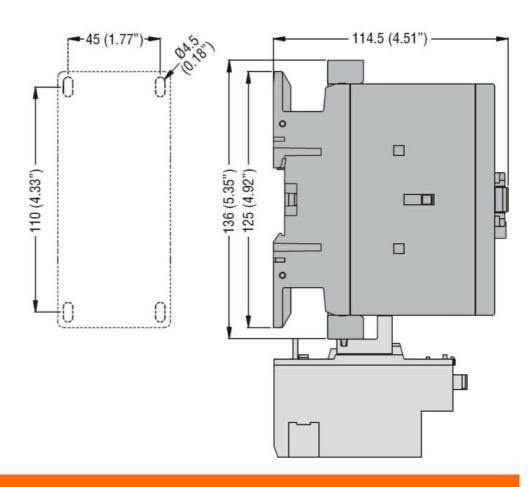
Dissipation at holding ≤20°C 50Hz		W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			4.0
	min	ms	12
Onening NO	max	ms	28
Opening NO	min	mo	8
	min max	ms ms	22
in DC	IIIax	1115	22
Closing NO			
Closing NO	min	ms	40
	max	ms	85
Opening NO	IIIdA	1113	
Оренінд 140	min	ms	20
	max	ms	55
UL technical data	max	7110	
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	77
	at 600V	A	77
Yielded mechanical performance			
for three-phase AC motor			
is an a product the most.	200/208V	HP	25
	220/230V	HP	30
	460/480V	HP	60
	575/600V	HP	75
General USE			
Contactor			
	AC current	Α	115
Short-circuit protection fuse, 600V			
High fault			
-	Short circuit current	kA	100
	Fuse rating	Α	200
_	Fuse class		J
Standard fault			
	Short circuit current	kA	10
	Fuse rating	Α	200
	Fuse class		RK5
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			



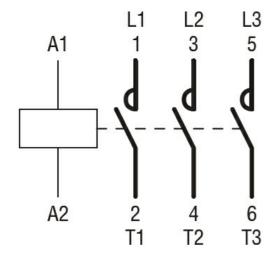
ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ,





Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC



BF8000A02460

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ,

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching