



Product designation	Power contactor
Product type designation	BF65
Contact characteristics	

Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	100
Operational current le		_	
	AC-1 (≤40°C)	Α	100
	AC-1 (≤55°C)	A	80
	AC-1 (≤70°C)	A	70
	AC-3 (≤440V ≤55°C)	A	65
Poted apprational newer AC 2 (T <ff°c)< td=""><td>AC-4 (400V)</td><td>Α</td><td>31</td></ff°c)<>	AC-4 (400V)	Α	31
Rated operational power AC-3 (T≤55°C)	230V	kW	18.5
	400V	kW	30
	415V	kW	37
	440V	kW	37
	500V	kW	37
	690V	kW	45
	1000V	kW	30
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	50
	48V	Α	50
	75V	Α	50
	110V	Α	8
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	70
	48V	Α	70
	75V	Α	70
	110V	A	60
IFC many augment to in DC4 with 1/D < 4ma with 2 males in series	220V	Α	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	<241/	۸	70
	≤24V 48V	A A	70 70
	75V	A	70 70
	110V	A	60
	220V	A	90
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V	, ,	
12 man san sin is in 20 min 21 min min i poloc in school	≤24V	Α	70
	48V	Α	70



	75V	Α	70
	110V	Α	70
	220V	Α	110
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	35
	48V	Α	25
	75V	Α	25
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
· ·	≤24V	Α	45
	48V	Α	40
	75V	Α	40
	110V	Α	30
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
2 1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3	≤24V	Α	55
	48V	Α	50
	75V	Α	50
	110V	A	35
	220V	A	52
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		
120 max current to in 200-200 with E/TC 2 forms with 4 poics in series	≤24V	Α	60
	48V	A	60
	75V	A	60
	110V	A	50
	220V	A	65
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		640
Protection fuse			040
Flotection luse	aC (IEC)	۸	125
	gG (IEC)	A	
Molding consolity (DMC value)	aM (IEC)	A	80
Making capacity (RMS value)		Α	650
Breaking capacity at voltage	4.40\/		500
	440V	A	520
	500V	A	425
	690V	A	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			_
	Ith	W	8
	AC3	W	3.4
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
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.	2
Conductor section			

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 protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal allowable		Vertical plan
	allowable		±30° Screw / DIN rail
Fixing			35mm
Weight		g	1020
Operations		9	.020
Mechanical life		cycles	15000000
Electrical life		cycles	1400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1400000
	mechanical load	cycles	15000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
AC coil operating			000
Rated AC voltage at 50/60Hz		V	230
AC operating voltage			
of 50/60Hz coil powered at 50Hz pick-up			
ріск-ир	min	%Us	80
	max	%Us	110
drop-out	max	7000	
1 1	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			
	min	%Us	85
	max	%Us	110
drop-out	•	0/11-	40
	min	%Us %Us	40
AC average coil consumption at 20°C	max	%US	55
of 50/60Hz coil powered at 50Hz			
01 00/00112 0011 powered at 00112	in-rush	VA	210
	holding	VA	15
of 50/60Hz coil powered at 60Hz			
,	in-rush	VA	195
	holding	VA	13
of 60Hz coil powered at 60Hz	<u> </u>		
	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz		W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			

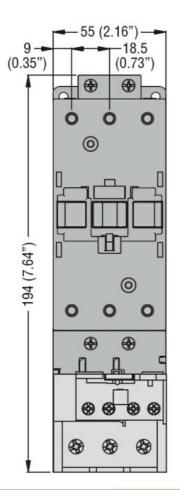


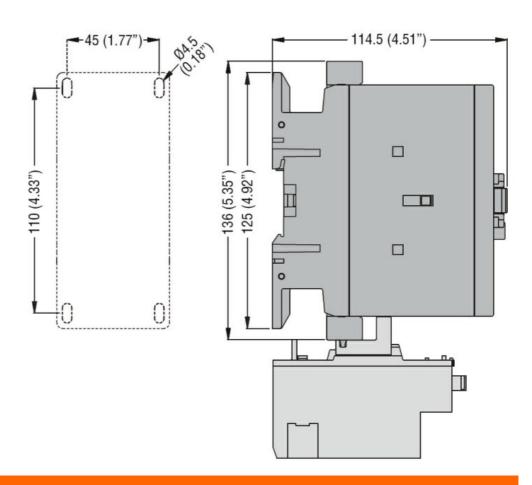
in AC

	III AC	Closing NO			
		Closing 140	min	ms	12
			max	ms	28
		Opening NO	max	1113	20
		Opening NO	min	ms	8
			max	ms	22
UL technical data			max	1113	
	for three-phase AC mot	or			
Tunioda odironi (i Ezi)	ioi tilico pilaso ito illoi	O	at 480V	Α	65
			at 600V	A	62
Yielded mechanical pe	rformance		at 000 v		02
rielded medianical pe	for three-phase AC mo	ntor			
	ioi tillee-pilase AO ilit	noi	200/208V	HP	20
			200/200V 220/230V	HP	25
			460/480V	HP	50
				HP	
General USE			575/600V	пР	60
General USE	Comtostor				
	Contactor		A.C. a	۸	400
Object along it was to attack	f 000V		AC current	Α	100
Short-circuit protection					
	High fault		01 - 4 - 2 - 2 - 2 - 2 - 2 - 2		400
			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					

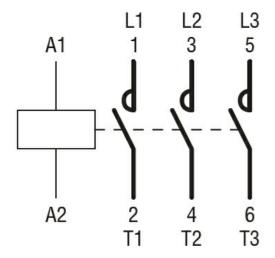








Wiring diagrams



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





Three-pole contactor, IEC operating current le (AC3) = 65A, AC coil 50/60Hz, 230VAC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching