

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 50/60HZ, 24VAC



Product designation			Power contactor
Product type designation Contact characteristics			BF65
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		IX V	
Specialisma: Irequeries	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	THOX	A	100
Operational current le			
	AC-1 (≤40°C)	Α	100
	AC-1 (≤55°C)	Α	80
	AC-1 (≤70°C)	Α	70
	AC-3 (≤440V ≤55°C)	Α	65
	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
D. I.	1000V	kW	30
Rated operational current AC-3 (T≤55°C)	0001/	•	0.5
	230V	A	65
	400V 415V	A	65 65
	440V	A A	65 65
	500V	A	53
	690V	A	47
	1000V	A	25
Rated operational power AC-1 (T≤40°C)	10001	,,	
	230V	kW	38
	400V	kW	65
	500V	kW	82
	690V	kW	114
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



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	48V	Α	70
	75V	Α	70
	110V	Α	60
	220V	Α	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			_
·	≤24V	Α	70
	48V	Α	70
	75V	Α	70
	110V	Α	60
	220V	Α	90
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
'	≤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			
TEO Max cancilla in Boo Boo Mar Erra Tomo Mar 1 poloc in conco	≤24V	Α	35
	48V	A	25
	75V	A	25
	110V	A	3
	220V	A	- -
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	≤24V	۸	45
	≤24V 48V	A	45
		A	40
	75V	A	40
	110V	A	30
IFO	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	10.43.7		
	≤24V	A	55
	48V	A	50
	75V	A	50
	110V	A	35
150 DOS DOS 111 L/D 145 111 4 1 1 1	220V	Α	52
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	≤24V	Α	60
	48V	Α	60
	75V	Α	60
	110V	Α	50
	220V	A	65
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
	aM (IEC)	Α	80
Making capacity (RMS value)		Α	650
Breaking capacity at voltage			
	440V	Α	520
	500V	Α	425
	690V	Α	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	8
	AC-3	W	3.4
Tightening torque for terminals			



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		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	Ibin	3.69
Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
Maria de la confesiona	et an Italian and a constant to	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	A1A1O /17 il			
	AWG/Kcmil	may		2
	Elevible w/e lug conductor coction	max		2
	Flexible w/o lug conductor section	min	mm²	1.5
			mm²	35
	Flexible c/w lug conductor section	max	111111	33
	I IONIDIE OF WIND COTTONCION SECTION	min	mm²	1.5
		max	mm²	35
Power terminal protect	tion according to IEC/EN 60529	IIIdA	111111	IP20 front
Mechanical features				11 20 110111
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	15000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating				yes
Rated AC voltage at 5	0/60Hz		V	24
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



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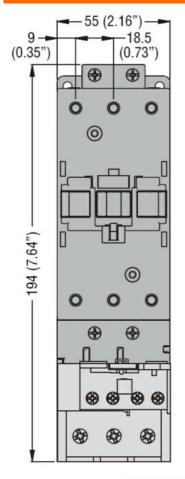
	drop-out			
	·	min	%Us	40
		max	%Us	55
AC average coil consu	umption at 20°C			_
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz			0.4.0
		in-rush	VA	210
District Control III	400°O FOLL	holding	VA	15
Dissipation at holding			W	5
Max cycles frequency			ما/م مامر	2000
Mechanical operation			cycles/h	3000
Operating times Average time for Us c	ontrol			
Average unit 101 US 0	in AC			
	Closing NO			
	Closing NO	min	ms	12
		max	ms	28
	Opening NO	IIIdx	1113	20
	Opening NO	min	ms	8
		max	ms	22
	in DC	mex		
	Closing NO			
	5.55mg	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	Α	65
		at 600V	Α	62
Yielded mechanical pe				
	for three-phase AC motor			
		200/208V	HP	20
		220/230V	HP	25
		460/480V	HP	50
		575/600V	HP	60
General USE	_			
	Contactor	••		400
Object also be a second	- t 000V	AC current	Α	100
Short-circuit protection				
	High fault	Object also be a second	1. 4	400
		Short circuit current	kA	100
		Fuse rating	Α	200
	Chandard foult	Fuse class		J
	Standard fault	Chart singuit summer	LΛ	10
		Short circuit current	kA ^	10 200
		Fuse rating Fuse class	Α	200 RK5
		Fu36 Cid55		IVIVO

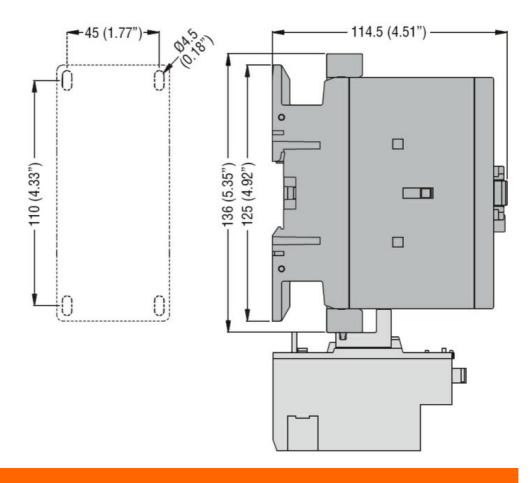


ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 50/60HZ,

Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				

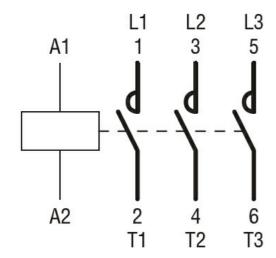




Wiring diagrams

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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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching