THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 50/60HZ, 230VAC



			10 10 10
Product designation			Power contactor
Product type designation			BF65
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)	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
	1000V	kW	30
Rated operational current AC-3 (T≤55°C)			
	230V	Α	65
	400V	Α	65
	415V	Α	65
	440V	Α	65
	500V	Α	53
	690V	Α	47
	1000V	Α	25
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	Α	60
	220V	Α	9

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



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	≤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			_
	≤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	A	30
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	- / (
120 max current to in 200-200 with 2/12 forms with 5 poics in series	≤24V	Α	55
	48V	A	50
	75V	A	50
	110V	A	35
	220V	A	52
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		J2
TEC max current le in DC3-DC3 with L/K \(\) 13ms with 4 poles in series	≤24V	Α	60
	48V	A	60
	75V	A	60
	110V	A	50
	220V		
Chart time allowable augment for 10e (IEC/ENGO047.1)	220 V	A	65
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		Α	640
FIOLECTION INSE	aC (IEC)	٨	105
	gG (IEC)	A	125
Malian agait. (DMC calca)	aM (IEC)	A	80
Making capacity (RMS value)		Α	650
Breaking capacity at voltage	4.40\/	۸	500
	440V	A	520
	500V	A	425
Decistance and leaveners of the	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			
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	lbin	3.69

ENERGY AND AUTOMATION

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

Tightening torque for o	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
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1020
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
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	-0/0011			000
Rated AC voltage at 5	00/60HZ		V	230
AC operating voltage	of 50/001			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	0/116	80
		min	%Us	
	drop out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	IIIdX	/003	00
	pick-up			
	ριοκ-αρ	min	%Us	85
		max	%Us	110
	drop-out	IIIdX	,003	710
	arop out	min	%Us	40
		max	%Us	55
AC average coil cons	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
	2. 33,331 12 3311 porroids at 001 12	in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz	Holanig	*, 1	.
	5. 55,551 12 5511 portored at 601 12	in-rush	VA	195
		holding	VA	13
		ig	•	· -

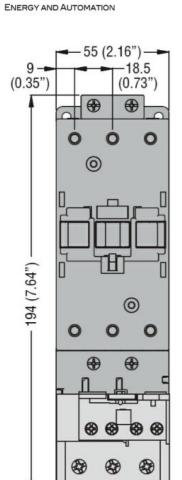


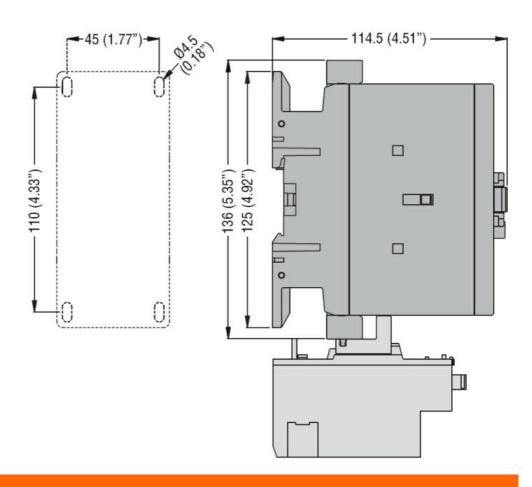


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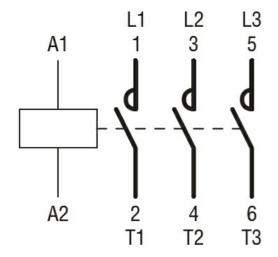
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	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding ≤	20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ntrol			
	in AC			
	Closing NO			
	ŭ	min	ms	12
		max	ms	28
	Opening NO			
	- Parmig	min	ms	8
		max	ms	22
UL technical data		Пах	1110	
	for three-phase AC motor			
i dii ioda cuitetii (i LA)	Tot till co pridate AO Motor	at 480V	Α	65
		at 600V	A	62
Violded masherical = -	rformanaa	al buuv	А	UZ
Yielded mechanical pe				
	for three-phase AC motor	222/2221/		00
		200/208V	HP	20
		220/230V	HP	25
		460/480V	HP	50
		575/600V	HP	60
General USE				
	Contactor			
		AC current	Α	100
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				
1	Operating temperature			
	· • • • • • • • • • • • • • • • • • • •	min	°C	-50
		max	°C	70
	Storage temperature	····ax		· •
	2.5. ago tomporaturo	min	°C	-60
		max	°C	80
Max altitude		IIIdX		3000
Resistance & Protection	n		111	3000
	· · · · · · · · · · · · · · · · · · ·			3
Pollution degree				J
Dimensions				





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



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cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching