



Product designation Product type designation			Power contactor BF12
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	28
Operational current le			
	AC-1 (≤40°C)	А	28
	AC-1 (≤55°C)	А	23
	AC-1 (≤70°C)	А	20
	AC-3 (≤440V ≤55°C)	А	12
	AC-4 (400V)	А	7.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	17
	48V	A	15
	75V	A	13
	110V	А	6
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	20
	48V	A	20
	75V	A	18
	110V	A	13
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			00
	≤24V	A	22
	48V	A	22
	75V	A	20
	110V	A	16

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Three-pole contactor, IEC operating current le (AC3) = 12A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact

	220V	А	11	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	А	20	
	48V	А	20	
	75V	А	20	
	110V	А	16	
	220V	А	12	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series				
	≤24V	А	12	
	48V	А	11	
	75V	А	10	
	110V	А	2	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series				
	≤24V	А	15	
	48V	A	13	
	75V	A	12	
	110V	A	8	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	2201	~~~~	2	
	≤24V	А	18	
	48V	A	18	
	40V 75V	A	15	
	110V	A	12	
	220V	A	6	
IEC may aurrent to in DC2 DC5 with L/R < 15ma with 4 palas in series	2200	A	0	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	<2417	٨	15	
	≤24V	A	15	
	48V	A	15	
	75V	A	15	
	110V	A	16 7	
Object times allowed to summer the ADS (IEO/ENICODAT A)	220V	A		
Short-time allowable current for 10s (IEC/EN60947-1)		A	150	
Protection fuse		۸	20	
	gG (IEC)	A	32	
	aM (IEC)	<u>A</u>	12	
Making capacity (RMS value)		Α	120	
Breaking capacity at voltage			00	
	440V	A	96	
	500V	A	96	
	690V	<u>A</u>	94	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	Ith	W	2	
	AC3	W	0.4	
Tightening torque for terminals				
	min	Nm	1.5	
	max	Nm	1.8	
	min	lbin	1.1	
	max	lbin	1.5	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	



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		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	20.01		10
	Flovible w/e lug conductor excition	max		10
	Flexible w/o lug conductor section	min	mm²	1
		min	mm²	1
	Flexible c/w lug conductor section	max	11111	6
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	max	111111	4
	Flexible with insulated space lug conductor section	min	mm²	1
		max	mm²	4
Power terminal protec	ction according to IEC/EN 60529	IIIdA	111111	IP20 when wire
Mechanical features				IF 20 WHEN WIE
Operating position				
		normal		Vertical plan
		allowable		±30°
		anowable		Screw / DIN rail
Fixing				35mm
Weight			g	354
Conductor section			9	001
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics	Шах		10
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation		7.	A600 - P600
Operating current AC				7,000 1,000
operating content / to		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12	0001	7.	
		110V	А	5.7
Operating current DC	13	1100	7.	0.1
oporating outfort 20		24V	А	5.7
		48V	A	2.9
		60V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.55
		600V	A	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
			0,000	_00000
Safety related data	10d according to EN/ISO 13489-1			
Safety related data	10d according to EN/ISO 13489-1	rated load	cycles	2000000
Safety related data	-	rated load	cycles	2000000
Safety related data Performance level B1	m	rated load echanical load	cycles cycles	2000000
Safety related data Performance level B1 Mirror contats accord	-		•	20000000 yes
Safety related data Performance level B1	m		•	2000000

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A C and a method as a shell a sec				
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	Пах	/000	00
	pick-up		0/11-	05
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
	•	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	lioiding	•••	-
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			-	
Average time for Us co	ontrol			
5	in AC			
	Closing NO			
		min	ms	0
				8
		max	ms	o 24
	Opening NO	max	ms	24
	Opening NO		ms ms	24 10
		max	ms	24
	Opening NO Closing NC	max	ms ms	24 10
		max	ms ms	24 10
		max min max	ms ms ms	24 10 20
	Closing NC	max min max min	ms ms ms	24 10 20 14
		max min max min max	ms ms ms ms	24 10 20 14 28
	Closing NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
	Closing NC	max min max min max	ms ms ms ms	24 10 20 14 28
	Closing NC Opening NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
	Closing NC	max min max min max min max	ms ms ms ms ms ms	24 10 20 14 28 7 18
	Closing NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms	24 10 20 14 28 7 18 11
Full-load current (FLA)	Closing NC Opening NC) for three-phase AC motor	max min max min max min max	ms ms ms ms ms ms	24 10 20 14 28 7 18
Full-load current (FLA)	Closing NC Opening NC) for three-phase AC motor	max min max min max min max at 480V	ms ms ms ms ms	24 10 20 14 28 7 18 11
Full-load current (FLA)	Closing NC Opening NC) for three-phase AC motor	max min max min max min max at 480V	ms ms ms ms ms	24 10 20 14 28 7 18 11
Full-load current (FLA)	Closing NC Opening NC) for three-phase AC motor	max min max min max min max at 480V	ms ms ms ms ms	24 10 20 14 28 7 18 11
Full-load current (FLA)	Closing NC Opening NC) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms A A HP	24 10 20 14 28 7 18 11 11 11 1
Full-load current (FLA)	Closing NC Opening NC) for three-phase AC motor erformance for single-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms A A	24 10 20 14 28 7 18 11 11
<mark>JL technical data</mark> Full-load current (FLA) Yielded mechanical pe	Closing NC Opening NC) for three-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms HP HP	24 10 20 14 28 7 18 11 11 11 2
Full-load current (FLA)	Closing NC Opening NC) for three-phase AC motor erformance for single-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms Ms MS HP HP	24 10 20 14 28 7 18 11 11 1 2 5
ull-load current (FLA)	Closing NC Opening NC) for three-phase AC motor erformance for single-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms HP HP	24 10 20 14 28 7 18 11 11 11 2



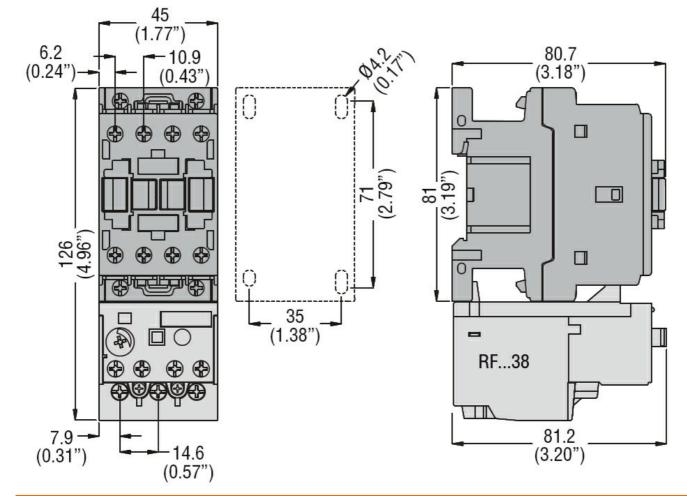
Three-pole contactor, IEC operating current le (AC3) = 12A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact

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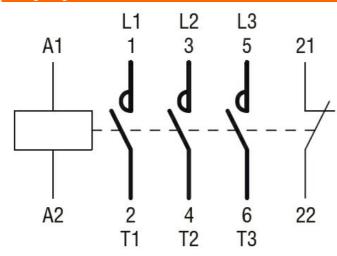
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	А	28
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit prote	ction fuse, 600V			
	High fault			
	J.	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	70
Contact rating of a	uxiliary contacts according to UL			A600 - P600
Ambient condition				
Temperature				
	Operating temperature			
	1 5 1	min	°C	-50
		max	°C	70
	Storage temperature			
	.	min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prot	ection			
Pollution degree				3

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Wiring diagrams



Certifications and compliance 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	



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	CCC		
	cULus		
	EAC		
ETIM classification			
			E0000000

ETIM 8.0

EC000066 -Power contactor, AC switching