



			•
Product designation			Power contactor
Product type designation			BF25
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	32
Operational current le			
	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	А	26
	AC-1 (≤70°C)	А	23
	AC-3 (≤440V ≤55°C)	А	25
	AC-4 (400V)	А	10
Rated operational power AC-3 (T≤55°C)			
	230V	kW	7
	400V	kW	12.5
	415V	kW	13.4
	440V	kW	13.4
	500V	kW	15
	690V	kW	11
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	20
	48V	А	18
	75V	A	18
	110V	A	6
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	A	16
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	Α	23
	48V	A	23
	75V	A	23
	110V	А	18

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	220V	А	12
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	-
	48V	А	_
	75V	А	_
	110V	А	-
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	A	15
	48V	A	13
	75V	A	13
	110V	A	2
IFC may summant to in DC2 DC5 with 1/D < 45ms with 2 males in equips	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	<0414	۸	4.0
	≤24V	A	18
	48V	A	18
	75V	A	16
	110V	A	10
IFC may summant to in DC2 DC5 with 1/D < 45ms with 2 males in series	220V	A	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	<0414	۸	22
	≤24V 48V	A A	22 22
	48V 75V		
	75V 110V	A	18
	220V	A	15
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2200	A	8
The current is in DC3-DC3 with $L/R \le 15$ ms with 4 poles in series	≤24V	А	
	≤24V 48V	A	-
	48V 75V	A	—
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	200
Protection fuse		~	200
	gG (IEC)	А	50
	aM (IEC)	A	25
Making capacity (RMS value)		A	250
Breaking capacity at voltage		Α	200
Elound gouperty at tonago	440V	А	200
	500V	A	184
	690V	A	102
Resistance per pole (average value)	0001	mΩ	2.5
Power dissipation per pole (average value)			
	lth	W	2.6
	AC-3	W	1.6
Tightening torque for terminals	70.0	* *	
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.0
	max	Ibin	1.5
Tightening torque for coil terminal	Παλ		1.0
	min	Nm	0.8
		Nm	1
	max		

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Ibin

min

0.8



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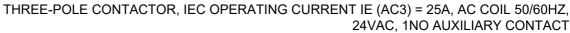
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lbin 0.74 max Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 mm² 6 max Flexible c/w lug conductor section 1 min mm² max mm² 4 Flexible with insulated spade lug conductor section 1 mm² min mm² 4 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 360 g Auxiliary contact characteristics Thermal current Ith 10 A IEC/EN 60947-5-1 designation A600 - P600 **Operating current AC15** 230V А 3 400V А 1.9 500V А 1.4 Operating current DC12 110V А 5.7 **Operating current DC13** 24V А 5.7 48V А 2.9 60V А 2.3 110V А 1.25 125V 1.1 А 0.55 220V А 600V А 0.2 Operations Mechanical life 20000000 cycles Electrical life 1200000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 2000000 mechanical load cycles EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 24 AC operating voltage of 50/60Hz coil powered at 50Hz

pick-up

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		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
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz		,	
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	•	١./ ٨	75
		in-rush	VA	75
Dissingstion at helding		holding	VA	9
Dissipation at holding	≤20°C 50HZ		W	2.5
Max cycles frequency			ev (el e e /h	2000
Mechanical operation			cycles/h	3600
Operating times	antrol			
Average time for Us co	in AC			
	(Clocing N())			
	Closing NO	min	me	8
	Closing NO	min	ms ms	8
		min max	ms ms	8 24
	Closing NO Opening NO	max	ms	24
		max min	ms ms	24 10
	Opening NO	max	ms	24
		max min max	ms ms ms	24 10 20
	Opening NO	max min max min	ms ms ms ms	24 10 20 14
	Opening NO Closing NC	max min max	ms ms ms	24 10 20
	Opening NO	max min max min max	ms ms ms ms ms	24 10 20 14
	Opening NO Closing NC	max min max min	ms ms ms ms	24 10 20 14 28
UL technical data	Opening NO Closing NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
UL technical data Rated operational volta	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
Rated operational volta	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms ms	24 10 20 14 28 7 18
Rated operational volta	Opening NO Closing NC Opening NC age AC (UL)	max min max min max min	ms ms ms ms ms ms ms	24 10 20 14 28 7 18
Rated operational volta	Opening NO Closing NC Opening NC age AC (UL)	max min max min max min max	ms ms ms ms ms ms V	24 10 20 14 28 7 18 600
Rated operational volta	Opening NO Closing NC Opening NC age AC (UL)	max min max min max min max at 480V	ms ms ms ms ms ms V	24 10 20 14 28 7 18 600 21
Rated operational volta Full-load current (FLA)	Opening NO Closing NC Opening NC age AC (UL)	max min max min max min max at 480V	ms ms ms ms ms ms V	24 10 20 14 28 7 18 600 21
Rated operational volta Full-load current (FLA)	Opening NO Closing NC Opening NC age AC (UL)) for three-phase AC motor	max min max min max min max at 480V	ms ms ms ms ms ms V	24 10 20 14 28 7 18 600 21
Rated operational volta Full-load current (FLA)	Opening NO Closing NC Opening NC age AC (UL)) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms V A A	24 10 20 14 28 7 18 600 21 17
Rated operational volta Full-load current (FLA)	Opening NO Closing NC Opening NC age AC (UL)) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms v V A A A	24 10 20 14 28 7 18 600 21 17 2
Rated operational volta Full-load current (FLA)	Opening NO Closing NC Opening NC age AC (UL)) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms v V A A A	24 10 20 14 28 7 18 600 21 17 2
Rated operational volta Full-load current (FLA)	Opening NO Closing NC Opening NC age AC (UL)) for three-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms V A A A HP HP	24 10 20 14 28 7 18 600 21 17 2 3
Rated operational volta Full-load current (FLA)	Opening NO Closing NC Opening NC age AC (UL)) for three-phase AC motor	max min max min max min max min max at 480V at 600V 110/120V 230V 220/230V 460/480V	ms ms ms ms ms v V A A A HP HP HP HP	24 10 20 14 28 7 18 600 21 17 2 3 7.5 7.5 15
Rated operational volta Full-load current (FLA)	Opening NO Closing NC Opening NC age AC (UL)) for three-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V 200/208V 220/230V	ms ms ms ms ms ms v V A A A HP HP HP	24 10 20 14 28 7 18 600 21 17 2 3 7.5 7.5 7.5

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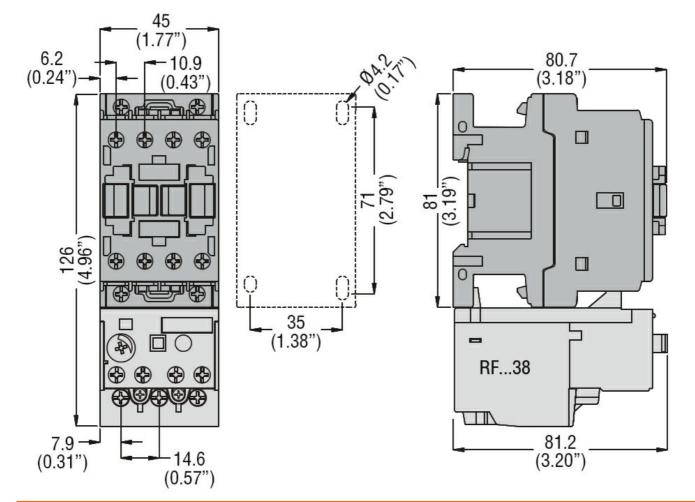
ENERGY AND AUTOMATION

General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protect	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	100
	xiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ction			
Pollution degree				3
Dimensions				

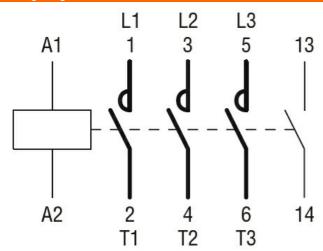
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Wiring diagrams



Certifications and compliance

Complianc		
	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 EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching