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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		Α	32
Operational current le			
	AC-1 (≤40°C)	Α	32
	AC-1 (≤55°C)	Α	26
	AC-1 (≤70°C)	Α	23
	AC-3 (≤440V ≤55°C)	Α	25
	AC-4 (400V)	Α	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 ≤ 1ms with 1 poles in series			
	≤24V	Α	20
	48V	Α	18
	75V	Α	18
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	23
	48V	Α	23
	75V	Α	23
	110V	Α	16
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
·	≤24V	Α	23
	48V	Α	23
	75V	Α	23
	110V	Α	18



	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		12
120 max outlone to in 201 with E/N = 1110 with 4 poles in selles	≤24V	Α	_
	48V	A	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	<u>-</u>		
·	≤24V	Α	15
	48V	Α	13
	75V	Α	13
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	18
	110V	Α	15
	220V	Α	8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse	. 0 (150)		50
	gG (IEC)	A	50
Malina and a site (DMO colors)	aM (IEC)	A	25
Making capacity (RMS value)		Α	250
Breaking capacity at voltage	4401/	۸	200
	440V 500V	A A	200 184
	690V	A	102
Resistance per pole (average value)	090 V	mΩ	2.5
Power dissipation per pole (average value)		11122	2.0
i owoi dissipation per pole (average value)	Ith	W	2.6
	AC-3	W	1.6
Tightening torque for terminals	7.0 0	V V	1.0
ng.no.mig torquo for torrimidio	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
5 5 12 12 12 12 12 12 12 12 12 12 12 12 12	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8



Management	signal (top a super supe	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	ANA/C/// om: il			
	AWG/Kcmil	may		10
	Flexible w/o lug conductor section	max		10
	riexible worldg coridactor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		
	Tickliste of windy contactor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Davier terminal prote	etics according to IFC/FN COFOO			IP20 when
Power terminal prote	ection according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	360
Conductor section				
	AWG/kcmil conductor section			
A 19	A 1 4 20	max		10
Auxiliary contact cha	racteristics			
The amount of the			Λ.	4.0
	acimation		Α	10 A600 B600
IEC/EN 60947-5-1 d	-		A	10 A600 - P600
IEC/EN 60947-5-1 d	-	2201/		A600 - P600
IEC/EN 60947-5-1 d	-	230V	A	A600 - P600 3
IEC/EN 60947-5-1 d	-	400V	A A	A600 - P600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 d Operating current AC	C15		A	A600 - P600 3
IEC/EN 60947-5-1 d Operating current AC	C15	400V 500V	A A A	A600 - P600 3 1.9 1.4
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V	A A	A600 - P600 3 1.9
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V	A A A	3 1.9 1.4 5.7
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V	A A A	A600 - P600 3 1.9 1.4 5.7
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V 48V	A A A A	A600 - P600  3 1.9 1.4  5.7  5.7 2.9
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V 48V 60V	A A A A A	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V 48V 60V 110V	A A A A A A	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3 1.25
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V 48V 60V	A A A A A	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3 1.25 1.1
IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DO Operating current DO Operating current DO Operating current DO	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DO Operations Mechanical life	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3 1.25 1.1 0.55 0.2
IEC/EN 60947-5-1 d	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DO Operations Mechanical life Electrical life Safety related data	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DO Operations Mechanical life Electrical life Safety related data	C15 C12 C13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DO Operations Mechanical life Electrical life Safety related data	C12 C13 C13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3 1.25 1.1 0.55 0.2  20000000 1200000
Operating current DO Operations Mechanical life Electrical life Safety related data Performance level B	C12 C13 C13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3 1.25 1.1 0.55 0.2  20000000 1200000
Operating current DO Operations Mechanical life Electrical life Safety related data Performance level B	C12 C13 C13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	A600 - P600  3 1.9 1.4  5.7  5.7 2.9 2.3 1.25 1.1 0.55 0.2  20000000 1200000 12000000

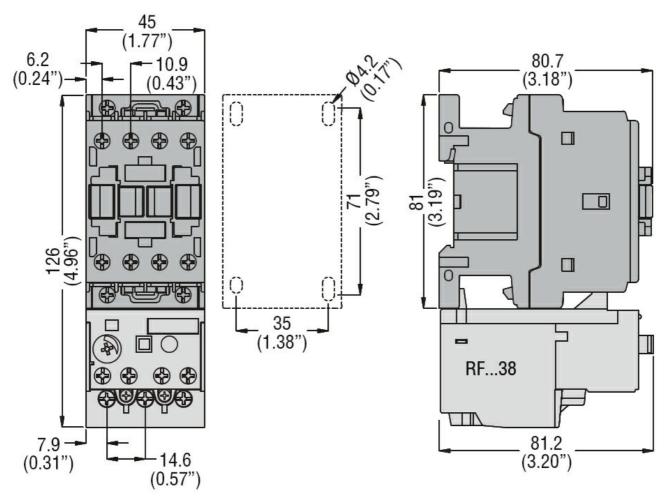


Rated AC voltage at 5	U/6UH2			
C operating voltage	of EO/GOLIz goil powered at EOLIz			
	of 50/60Hz coil powered at 50Hz pick-up			
	piok up	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	0.5
		min max	%Us %Us	85 110
	drop-out	IIIax	/005	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			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz		١/٨	75
		in ruch		
		in-rush	VA \/Δ	
Dissination at holding	<20°C 50Hz	in-rush holding	VA	9
Dissipation at holding Max cycles frequency	≤20°C 50Hz			
Dissipation at holding Max cycles frequency Mechanical operation	≤20°C 50Hz		VA W	9 2.5
Max cycles frequency Mechanical operation	≤20°C 50Hz		VA	9 2.5
Max cycles frequency Mechanical operation Operating times			VA W	9 2.5
Max cycles frequency Mechanical operation Operating times	ontrol in AC	holding	VA W	9 2.5
Max cycles frequency Mechanical operation Operating times	ontrol	holding	VA W cycles/r	9 2.5 3600
Max cycles frequency Mechanical operation Operating times	ontrol in AC	holding	VA W cycles/h	9 2.5 3600
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing No	holding  O min max	VA W cycles/r	9 2.5 3600
Max cycles frequency Mechanical operation Operating times	ontrol in AC	holding  O min max	VA W cycles/r ms ms	9 2.5 3600 8 24
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing No	holding  O min max  IO min	VA W cycles/r ms ms	9 2.5 3600 8 24 10
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing No Opening N	holding  O min max  IO min max	VA W cycles/r ms ms	9 2.5 3600 8 24
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing No	holding  min max  IO  min max  C	VA W cycles/r ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing No Opening N	holding  O min max  IO min max	VA W cycles/r ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing No Opening N	holding  O min max  IO min max  C min max	VA W cycles/r ms ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operation Operating times	ontrol in AC Closing No Opening No Closing No	holding  O min max  IO min max  C min max	VA W cycles/r ms ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operation Operating times Average time for Us c	ontrol in AC Closing No Opening No Closing No	holding  D min max  IO min max  C min max  IC	VA W cycles/h ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operation Deprating times Average time for Us c	ontrol in AC Closing No Opening No Closing No Opening No	holding  min max  max  min max  max  min max  max  min max  min max  min max	W  cycles/r  ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operation Deprating times Average time for Us c	ontrol in AC Closing No Opening No Closing No	holding  min max  max  min max  max  min max  min max  max  min max	VA W cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Derating times Average time for Us c	ontrol in AC Closing No Opening No Closing No Opening No	holding  D min max  IO min max  C min max  IC min max  IC at 480V	VA W cycles/r ms ms ms ms ms ms ms A	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Deprating times Average time for Us c  JL technical data Full-load current (FLA	ontrol in AC Closing No Opening No Closing No Opening No	holding  min max  max  min max  max  min max  min max  max  min max	VA W cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us c  JL technical data Full-load current (FLA	ontrol in AC  Closing No  Opening No  Closing No  Opening No  Open	holding  D min max  IO min max  C min max  IC min max  IC at 480V	VA W cycles/r ms ms ms ms ms ms ms A	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us c  JL technical data Full-load current (FLA	ontrol in AC Closing No Opening No Closing No Opening No	holding  min max  max  min max  max  min max  max  max  max  min max  max  max  max	VA W cycles/h ms ms ms ms ms ms A A	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us c	ontrol in AC  Closing No  Opening No  Closing No  Opening No  Open	holding  min max  max  min max  min max  max  min max  max  max  max  max  max  max  max	VA W cycles/r ms ms ms ms ms ms A A HP	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us c  JL technical data Full-load current (FLA	ontrol in AC  Closing No  Opening No  Closing No  Opening No  Open	holding  min max  max  min max  max  min max  max  max  max  min max  max  max  max	VA W cycles/h ms ms ms ms ms ms A A	9 2.5 3600 8 24 10 20 14 28 7 18

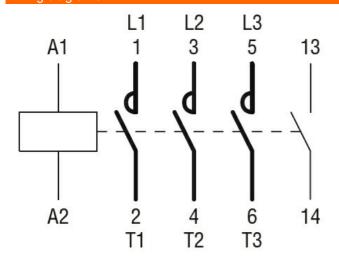


		220/230V	HP	7.5
		460/480V	HP	15
		575/600V	HP	15
General USE				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
	•	AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protect	ion fuse, 600V			
·	High fault			
	<b>G</b>	Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of auxiliary 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				





## Wiring diagrams



## Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

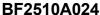
IEC/EN/BS 60947-4-1

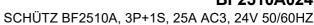
UL 60947-1

UL 60947-4-1

Certificates

CCC







cULus			
FAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching