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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			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤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	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			_
	≤24V	Α	22
	48V	Α	22
	75V	A	18
	110V	A	15
	220V	Α	8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		
120 max out one to in 200 200 with 2/10 = 10mb with 4 poles in series	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		200
Protection fuse			200
1 100000011 1000	gG (IEC)	Α	50
	aM (IEC)	A	25
Making capacity (RMS value)	aw (IZO)	A	250
Breaking capacity at voltage			200
	440V	Α	200
	500V	A	184
	690V	Α	102
Resistance per pole (average value)	300 v	mΩ	2.5
Power dissipation per pole (average value)		11122	2.0
1 oner alsoipation per pole (average value)	Ith	W	2.6
	AC-3	W	1.6
Tightening torque for terminals	70-3	V V	1.0
rightening torque for terminals	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.0
		lbin	1.5
Tightening torque for coil terminal	max	וווטו	1.0
rightening torque for contentinal	min	Nlm	Λ 8
	min	Nm Nm	0.8
	max	Nm Ibin	1
	min	lbin	0.8



		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AMO #4			
	AWG/Kcmil			10
	Flexible w/o lug conductor section	max		10
	Flexible w/o lug colluctor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		
	r textere e, w rug corradoter cocaer.	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
	, ,	min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when
	ction according to IEC/EN 00329			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Weight				35mm 362
Conductor section			g	302
Conductor section	AWG/kcmil conductor section			
	AVVG/KCITIII COTIQUCTOT Section	max		10
Auxiliary contact char	acteristics	IIIax		10
Thermal current Ith	400000		Α	10
				. •
IEC/EN 60947-5-1 de	esignation			A600 - P600
IEC/EN 60947-5-1 de Operating current AC	-			A600 - P600
IEC/EN 60947-5-1 de Operating current AC	-	230V	A	A600 - P600 3
	-	230V 400V	A A	
	-			3
	15	400V	Α	3 1.9
Operating current AC	15	400V	Α	3 1.9
Operating current AC	15	400V 500V	A A	3 1.9 1.4
Operating current AC Operating current DC	15	400V 500V 110V 24V	A A A	3 1.9 1.4 5.7
Operating current AC Operating current DC	15	400V 500V 110V 24V 48V	A A A A	3 1.9 1.4 5.7 5.7 2.9
Operating current AC Operating current DC	15	400V 500V 110V 24V 48V 60V	A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V	A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current AC	15	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 AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current AC Operating current DC Operating current DC Operating current DC	15	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 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Mechanical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life	15	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 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	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	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 AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 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	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 AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level BC Mirror contats accord	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	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000 20000000 yes
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 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	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000



Raied AC vollage a	at 50/60Hz		V	400
AC operating voltag	-			
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
	1	max	%Us	110
	drop-out		0/11-	00
		min	%Us	20
	of EO/COLLT poil nowared at COLLT	max	%Us	55
	of 50/60Hz coil powered at 60Hz pick-up			
	ρισκ-αρ	min	%Us	85
		max	%Us	110
	drop-out	Παλ	/003	110
	drop out	min	%Us	20
		max	%Us	55
C average coil co	nsumption at 20°C		7000	
	of 50/60Hz coil powered at 50Hz			
	2. 25,03 <u> </u>	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	-		
	·	in-rush	VA	75
		holding	VA	9
Dissipation at holdi	ng <20°C 50Hz			2.5
	11g =20 0 00112		W	2.5
	-			
Max cycles frequen Mechanical operation	ncy		W cycles/h	
Max cycles frequen Mechanical operation Operating times	on			
Max cycles frequen Mechanical operation Operating times	on s control			
Max cycles frequen Mechanical operation Operating times	s control in AC			
Max cycles frequen Mechanical operation Operating times	on s control		cycles/h	3600
Max cycles frequen Mechanical operation Operating times	s control in AC	min	cycles/h	3600
Max cycles frequen Mechanical operation Operating times	s control in AC Closing NO	min max	cycles/h	3600
Max cycles frequen Mechanical operation Operating times	s control in AC	max	cycles/h ms ms	3600 8 24
Max cycles frequen Mechanical operation Operating times	s control in AC Closing NO	max min	cycles/h ms ms ms	3600 8 24 10
Max cycles frequen Mechanical operation Operating times	s control in AC Closing NO Opening NO	max	cycles/h ms ms	3600 8 24
Max cycles frequen Mechanical operation Operating times	s control in AC Closing NO	max min max	ms ms ms ms	3600 8 24 10 20
Max cycles frequen Mechanical operation Operating times	s control in AC Closing NO Opening NO	max min max min	cycles/h ms ms ms ms ms	3600 8 24 10 20
Max cycles frequen Mechanical operation Degrating times	s control in AC Closing NO Opening NO Closing NC	max min max	ms ms ms ms	3600 8 24 10 20
Max cycles frequen Mechanical operation Degrating times	s control in AC Closing NO Opening NO	max min max min max	ms ms ms ms ms	3600 8 24 10 20 14 28
Max cycles frequen Mechanical operation Degrating times	s control in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms	3600 8 24 10 20 14 28 7
Max cycles frequent Mechanical operation Operating times Everage time for Us	s control in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms ms	3600 8 24 10 20 14 28
Max cycles frequented	s control in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	3600 8 24 10 20 14 28 7
Max cycles frequented	s control in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms	3600 8 24 10 20 14 28 7
Max cycles frequented	s control in AC Closing NO Opening NO Closing NC Opening NC	max min max min max at 480V	ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18
Max cycles frequented	s control in AC Closing NO Opening NO Closing NC Opening NC Opening NC	max min max min max min max	ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18
Max cycles frequent Mechanical operation Departing times Average time for Use May and the May and the May and the May and the May are also become a second to the second to the May are also become a second to th	s control in AC Closing NO Opening NO Closing NC Opening NC Opening NC	max min max min max at 480V	ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18
Max cycles frequented	s control in AC Closing NO Opening NO Closing NC Opening NC Opening NC	max min max min max at 480V	ms ms ms ms ms ms	3600 8 24 10 20 14 28 7 18
Max cycles frequented	s control in AC Closing NO Opening NO Closing NC Opening NC Opening NC	min max min max min max at 480V at 600V	ms ms ms ms ms A	3600 8 24 10 20 14 28 7 18
Max cycles frequented	s control in AC Closing NO Opening NO Closing NC Opening NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms A A	3600 8 24 10 20 14 28 7 18

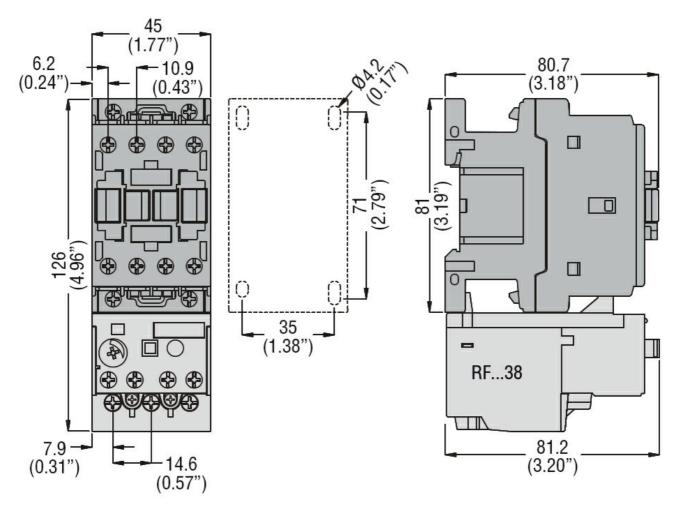




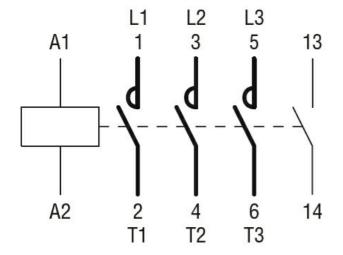
220/230V					
S75/600V			220/230V	HP	7.5
Contactor			460/480V	HP	15
Contactor			575/600V	HP	15
AC current	General USE				
Auxiliary contacts AC voltage		Contactor			
AC voltage			AC current	Α	32
AC current A 10 DC voltage V 250 DC current A 1 DC voltage DC current A 1 Short-circuit current KA 100 Fuse rating A 60 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 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 & Protection		Auxiliary contacts			
DC voltage V 250 DC current		•	AC voltage	V	600
DC current			AC current	Α	10
Short-circuit protection fuse, 600V High fault Short circuit current Fuse rating A 60 Fuse class J Standard fault Short circuit current Fuse rating A 100 Fuse class J Standard fault Short circuit current Fuse rating A 100 Moderate rating of auxiliary contacts according to UL A600 - P600 Ambient conditions A600 - P600 Ambient conditions A600 - P600 Ambient conditions Fuse rating A 100 Affiliation Moderate rating of auxiliary contacts according to UL A600 - P600 Ambient conditions Moderate rating of auxiliary contacts according to UL A600 - P600 Affiliation A600 - P			DC voltage	V	250
High fault			DC current	Α	1
High fault	Short-circuit protect	tion fuse, 600V			
Fuse rating Fuse class					
Standard fault Short circuit current KA 5 Fuse rating A 100		· ·	Short circuit current	kA	100
Standard fault Short circuit current KA 5 Fuse rating A 100			Fuse rating	Α	60
Short circuit current Fuse rating Fuse rating A 100			Fuse class		J
Fuse rating		Standard fault			
Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions Temperature Min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude Resistance & Protection Pollution degree			Short circuit current	kA	5
Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree			Fuse rating	Α	100
Temperature	Contact rating of au	ixiliary contacts according to UL			A600 - P600
Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3	Ambient conditions				
min min max °C -50 max -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3	Temperature				
min min max °C -50 max -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3	·	Operating temperature			
Storage temperature min %C -60 max %C 80 Max altitude m 3000 Resistance & Protection Storage temperature Pollution degree 3			min	°C	-50
min %C -60 max %C 80 Max altitude m 3000 Resistance & Protection 3 Pollution degree 3			max	°C	70
min %C -60 max %C 80 Max altitude m 3000 Resistance & Protection 3 Pollution degree 3		Storage temperature			
Max altitude m 3000 Resistance & Protection Pollution degree 3			min	°C	-60
Resistance & Protection Pollution degree 3			max	°C	80
Pollution degree 3	Max altitude			m	3000
	Resistance & Prote	ection			
	Pollution degree				3

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT



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



BF2510A400

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching