



Product designation			Power contactor
Product type designation			BF25
Contact characteristics			D. 20
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		IX V	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Шах	A	32
		A	32
Operational current le	AC 4 (<40°C)	۸	20
	AC-1 (≤40°C)	A	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)			• •
Trailed operational power 7/6 1 (1240 0)	230V	kW	12
	400V	kW	21
	500V	kW	26
150	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	2201	, ,	•
TEO Max outfork to in DOT with Lift = This with 5 poles in selies	≤24V	Α	23
	≤24V 48V		
		A	23
	75V	A	23
	110V	Α	18





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	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 (ILO)	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



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		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AMA # # #			
	AWG/Kcmil			10
	Flavible w/s lug conductor coetion	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	IIIax	111111	0
	r lexible c/w lug corludctor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	max		•
	Tromble with inculated opage rag conductor coolien	min	mm²	1
		max	mm²	4
				IP20 when
Power terminal protection	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	368
Conductor section				
	A1A/O/I 'I I / /'			
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char		max		
Thermal current Ith	acteristics	max	A	10
Thermal current Ith IEC/EN 60947-5-1 de	acteristics esignation	max	Α	
Thermal current Ith IEC/EN 60947-5-1 de	acteristics esignation			10 A600 - P600
•	acteristics esignation	230V	A	10 A600 - P600
Thermal current Ith IEC/EN 60947-5-1 de	acteristics esignation	230V 400V	A A	10 A600 - P600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V	A	10 A600 - P600
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V 400V 500V	A A A	10 A600 - P600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V	A A	10 A600 - P600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V	A A A	10 A600 - P600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V	A A A	10 A600 - P600 3 1.9 1.4 5.7
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V	A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V	A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V	A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Safety related data	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Safety related data	esignation 15 112	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Safety related data	esignation 15 212 213 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles	10 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
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Electrical life Safety related data Performance level B1	esignation 15 212 213 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	10 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
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	esignation 15 212 213 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	10 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 1200000 20000000



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 frequent 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 frequent 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 are also and the May are also ar	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	max 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

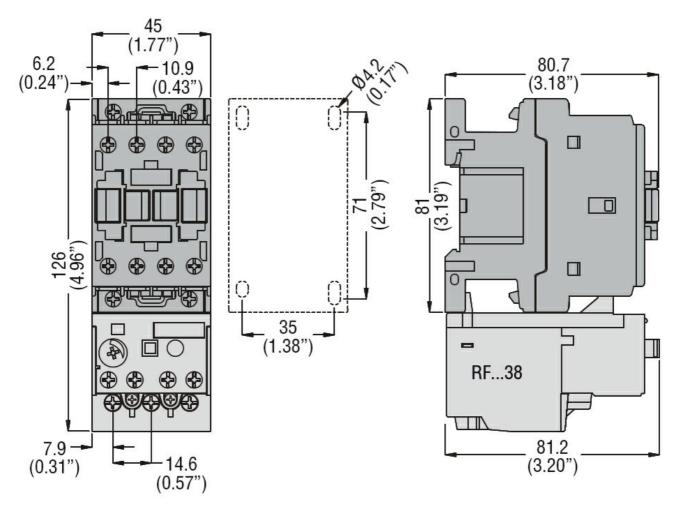




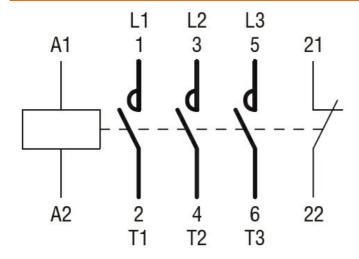
		220/230V	HP	7.5
		460/480V	HP	15
		575/600V	HP	15
General USE				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
	•	AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protect	ion fuse, 600V			
·	High fault			
	G	Short circuit current	kA	100
		Fuse rating	Α	60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

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 400VAC, 1NC 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



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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 400VAC, 1NC AUXILIARY CONTACT

CCC			
cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching