



## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 24VAC, 1NC AUXILIARY CONTACT



Product designation Product type designation			Power contactor 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	A	18
	110V	A	6
150	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	40.4V	Δ.	00
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V 220V	Α Δ	16 1
IEC may current to in DC1 with L/B < 1mg with 2 notes in cories	220 V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	≤24V	Α	23
	≤24 V 48 V	A	23
	75V	A	23
	110V	A	18
	1100	Λ.	





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 24VAC, 1NC AUXILIARY CONTACT

	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			
The max carron to in Boo Boo with Ent = Tome with 1 poles in conce	≤24V	Α	15
	48V	A	13
	75V	A	13
	110V	A	2
150	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	.0.0.4		4.0
	≤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			
The max carrent to in 200 200 mai 2/( = 10me mai ) poise in come	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V		_
Chart time allowable assurant for 40a (IEC/ENCO047.4)	220 V	A	200
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse	0 (150)		
	gG (IEC)	Α	50
	aM (IEC)	A	25
Making capacity (RMS value)		Α	250
Breaking capacity at voltage			
	440V	Α	200
	500V	Α	184
	690V	Α	102
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	2.6
	AC-3	W	1.6
Tightening torque for terminals			
G G I I I I I I I I I I I I I I I I I I	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
		Ibin	1.5
Tightoning torque for coil terminal	max	וווטו	1.0
Tightening torque for coil terminal	t. ·	N I	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 24VAC, 1NC AUXILIARY CONTACT

May number of using a	imultan a suelu a san a stala la	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/KCIIII	max		10
	Flexible w/o lug conductor section	IIIax		10
	riexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		
	r lexible of wind defination decition	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	max		•
	r ionibio mar modiated spade rag corrector econom	min	mm²	1
		max	mm²	4
				IP20 when
Power terminal protec	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Neight			g	356
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	cteristics			
Thermal current Ith			Α	10
EC/EN 60947-5-1 de:				A600 - P600
Operating current AC1	5			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC1	2			
		110V	Α	5.7
Operating current DC1	3			
		24V	Α	5.7
			Α	2.9
		48V	/ \	
		60V	A	2.3
		60V 110V		1.25
		60V 110V 125V	Α	1.25 1.1
		60V 110V 125V 220V	A A A	1.25 1.1 0.55
		60V 110V 125V	A A A	1.25 1.1
•		60V 110V 125V 220V	A A A A	1.25 1.1 0.55 0.2
Mechanical life		60V 110V 125V 220V	A A A A Cycles	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life		60V 110V 125V 220V	A A A A	1.25 1.1 0.55 0.2
Mechanical life Electrical life Safety related data		60V 110V 125V 220V	A A A A Cycles	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	60V 110V 125V 220V	A A A A Cycles	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	Od according to EN/ISO 13489-1	60V 110V 125V 220V	A A A A Cycles	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	-	60V 110V 125V 220V 600V	A A A A Cycles	1.25 1.1 0.55 0.2 20000000 1200000
Mechanical life Electrical life Safety related data Performance level B1	-	60V 110V 125V 220V 600V	A A A A Cycles cycles	1.25 1.1 0.55 0.2 20000000 1200000
	m	60V 110V 125V 220V 600V	A A A A Cycles cycles	1.25 1.1 0.55 0.2 20000000 1200000 1200000 20000000





## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 24VAC, 1NC AUXILIARY CONTACT

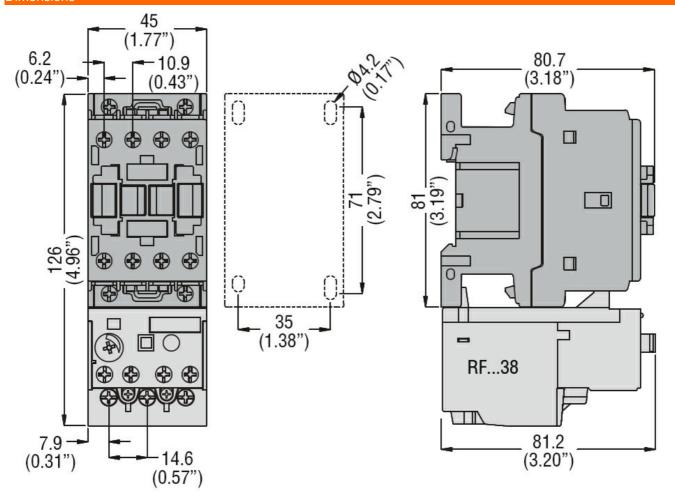
Rated AC voltage at 60Hz		V	24
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out		0/11-	00
	min	%Us %Us	20 55
AC average coil consumption at 20°C	max	/005	55
of 60Hz coil powered at 60Hz			
01 001 12 0011 powerou at 001 12	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz	<u> </u>	W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	8
Opening NO	max	ms	24
Opening NO	min	ms	10
	max	ms	20
Closing NC			
· ·	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor	ot 400\/	۸	24
	at 480V at 600V	A A	21 17
Yielded mechanical performance	at 000 v		17
for single-phase AC motor			
isi single phase /to moter	110/120V	HP	2
	230V	HP	3
for three-phase AC motor			
·	200/208V	HP	7.5
	220/230V	HP	7.5
	460/480V	HP	15
	575/600V	HP	15
General USE			
Contactor	A O	Λ	22
Accelliant applicate	AC current	Α	32
Auxiliary contacts	AC valtage	1/	600
	AC voltage AC current	V A	10
	DC voltage	V	250
	DC current	Ā	1
Short-circuit protection fuse, 600V			
Chort on out protoction race, ecc v			





## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 24VAC, 1NC AUXILIARY CONTACT

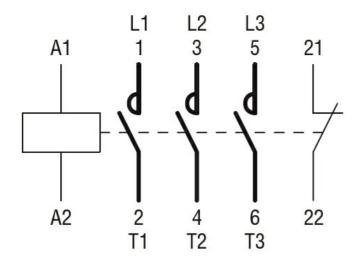
	Short circuit current	kA	100
	Fuse rating	Α	60
	Fuse class		J
Standard fault			·
	Short circuit current	kA	5
	Fuse rating	Α	100
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



Wiring diagrams



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 24VAC, 1NC AUXILIARY CONTACT



## 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

**EAC** 

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching