





Product designation Product type designation			Power contactor BF25
Contact characteristics			DI 23
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
openanena nequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
Operational current le			
-1	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)	, ,		
1 1 (/	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)			
1 1 - (/	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	A	13
	75V	Α	13
	110V	A	2
	220V	A	_
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series	220 V		
TEC max current le in DC3-DC3 with DR = 13ms with 2 poles in series	=24V	Α	18
	=24V 48V		
		A	18
	75V	A	16
	110V	A	10
150	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			
	gG (IEC)	Α	50
	aM (IEC)	Α	25
Making capacity (RMS value)	· /	Α	250
Breaking capacity at voltage			
5 1 m 5 m 5 m 5	440V	Α	200
	500V	A	184
	690V	Α	102
Resistance per pole (average value)	3001	m?	2.5
Power dissipation per pole (average value)		11111	2.0
i over dissipation per pole (average value)	Ith	W	2.6
	AC3	W	1.6
Tightoning torque for terminals	AUS	v v	1.0
Tightening torque for terminals		Nima	1 5
	min	Nm Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
This is the state of the state	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8





Mechanical features Special position Special plan Special			max	Ibin	0.74
Name		simultaneously connectable		Nr.	2
Max	Conductor section	A)A(O/I/C - 1)			
Flexible w/o lug conductor section		AWG/Kcmii			4.0
Plexible c/w lug conductor section		Clavible w/s live as diretor as time	max		10
Pexible c/w lug conductor section		Flexible w/o lug conductor section	min	mm²	1
Flexible c/w lug conductor section					•
Mini		Florible c/w lug conductor section	IIIdX	111111	0
Place Plac		r lexible 6/w lug corructor section	min	mm²	1
Flexible with insulated spade lug conductor section min mm² min min min mm² min					
Min		Flexible with insulated spade lug conductor section			•
Propertial protection according to IEC/EN 60529 IP20 when wired Mechanical features IP20 when wired Mechanical field IP20 when wired wired mechanical field IP20 when		Tionale manifestate operating contractor country		mm²	1
Power terminal protection according to IEC/EN 60529 IP20 when wired Mochanical features IP20 when wired Mochanical features IP20 when wired IP					
Nechanical features Special position Special plan Special	Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Normal allowable Normal 130" Normal 130"	Mechanical features	Ü			
Normal allowable Normal 130" Normal 130"	Operating position				
Allowable 130° 1			normal		Vertical plan
Neight g 356 Conductor section AWG/kcmil conductor section AWAIIIIIII Conductor section Max 10 AWAIIIIIIII CONDUCTOR Max 10 AWAIIIIIIII CONDUCTOR Max 10 EC/EN 60947-5-1 designation A600 - P600 Departing current AC15 A 10 EC/EN 60947-5-1 designation A600 - P600 Departing current AC15 A 1.9 500V A 1.4 Departing current DC12 T10V A 5.7 Departing current DC13 A 5.7 A8V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 125V A 1			allowable		
Meight	Fixing				Screw / DIN rail
AWG/kcmil conductor section					35mm
AWX/liary contact characteristics Thermal current lth A 10 EC/EN 60947-5-1 designation A600 - P600 Departing current AC15 230V A 3 400V A 1.9 500V A 1.4 Departing current DC12 110V A 5.7 Departing current DC13 24V A 5.7 A8V A 2.9 60V A 2.3 110V A 2.9 110V A 2.3 110V A 2.9 110V A 2.7 110V A 2.9 110V A	Weight			g	356
Maxiliary contact characteristics	Conductor section				
Auxiliary contact characteristics Thermal current Ith EC/EN 60947-5-1 designation Departing current AC15 230V A 3 400V A 1.9 500V A 1.4 Departing current DC12 110V A 5.7 Departing current DC13 24V A 5.7 Departing current DC13 24V A 5.7 ABAY A 2.9 60V A 2.3 110V A 2.3 110V A 2.3 110V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 60V A 0.55 60V A 0.55 60V A 0.55 60V A 0.2 Departing current DC13 Departing current DC13 Electrical life Cycles 20000000 Electrical life Cycles 1200000 Safety related data Performance level B10d according to EN/ISO 13489-1 Fated load cycles 1200000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Wes EMC compatibility		AWG/kcmil conductor section			
Thermal current Ith			max		10
EC/EN 60947-5-1 designation	•	acteristics			
Comparison of				A	
230V A 3 400V A 1.9 500V A 1.4		-			A600 - P600
A 00V	Operating current AC	15		_	_
Solvariance					
Departing current DC12					
110V A 5.7	O	40	5007	Α	1.4
Departing current DC13	Operating current DC	12	4401/	۸	r 7
24V	On a ratio a accurrent DO	10	1100	A	5.7
48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 1.5V A 0.55 600V A 0.2 0.55 600V A 0.2 0.2 0.55 0	Operating current DC	13	241/	٨	E 7
60V A 2.3 110V A 1.25 125V A 1.1 1.25V A 0.55 600V A 0.2 0.55 600V A 0.2 0					
110V A 1.25 125V A 1.1 125V A 1.25 120V A 0.55 120V A 0.2 120V A 0.2 120V A 0.2 120V A 0.2 120V A 1.25 120V A 1.25 120V A 1.25 1.20V A 1.2					
125V A 1.1 220V A 0.55 600V A 0.2					
220V A 0.55 600V A 0.2 Operations Mechanical life cycles 20000000 Electrical life cycles 1200000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility AC coil operating					
Departions Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 mechanical load cycles 1200000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility AC coil operating					
Mechanical life cycles 20000000 Electrical life cycles 1200000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes AC coil operating					
Mechanical life cycles 20000000 Electrical life cycles 1200000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes AC coil operating	Operations				
Electrical life cycles 1200000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes AC coil operating	Mechanical life			cycles	20000000
Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes AC coil operating	Electrical life				
Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility AC coil operating	Safety related data				
rated load cycles 1200000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes AC coil operating		0d according to EN/ISO 13489-1			
mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating		-	rated load	cycles	1200000
EMC compatibility yes AC coil operating			mechanical load	-	20000000
AC coil operating	Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
	EMC compatibility				yes
Rated AC voltage at 60Hz V 24	AC coil operating				
	Rated AC voltage at 6	60Hz		V	24



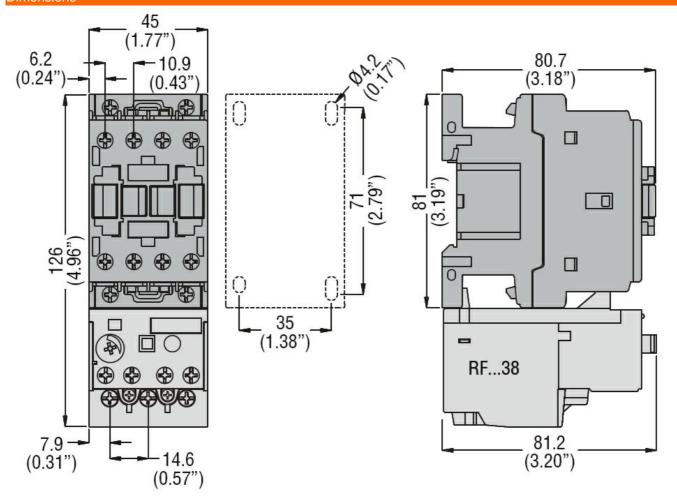


AC operating voltage					
	of 60Hz coil powered				
		pick-up			
			min	%Us	80
		dana nut	max	%Us	110
		drop-out	min	%Us	20
			min	%Us %Us	55
AC average coil consu	ımntion at 20°C		max	/005	55
AC average con consc	of 60Hz coil powered	at 60Hz			
	or our iz con powered i	at 001 12	in-rush	VA	75
			holding	VA	9
Dissipation at holding	=20°C 50Hz		Holaing	W	2.5
Max cycles frequency	20 0 00112			• • •	2.0
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
5	in AC				
		Closing NO			
		5 -	min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
LIL Control of the Late			max	ms	18
UL technical data	for three phase AC ma	tor			
ruii-ioad current (FLA)	for three-phase AC mo	lOI	at 480V	٨	21
			at 600V	A A	21 17
Yielded mechanical pe	orformanco		at 000 v	A	17
riciucu mediamidai pe	for single-phase AC m	notor			
	ioi siligie-pilase AC II	iotoi	110/120V	HP	2
			230V	HP	3
	for three-phase AC mo	otor	200 V	***	<u>-</u>
	.5. 100 pridoo /10 mi		200/208V	HP	7.5
			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 protection					
	High fault				
			Short circuit current	kA	100



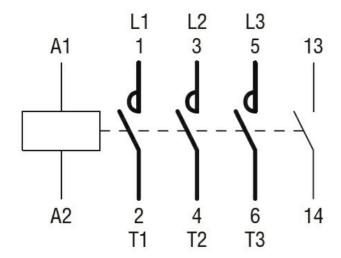


		Fuse rating	Α	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of aux	kiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max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

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching