

Product designation Product type designation			Power contactor BF18
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		A	32
Operational current le		_	
	AC-1 (≤40°C)	A	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	A	18
	AC-4 (400V)	A	8.5
Rated operational power AC-3 (T≤55°C)	00014	1 1 4 7	4
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V 690V	kW	10 10
Deted exertional newer AC 1 (T<10°C)	690 V	kW	10
Rated operational power AC-1 (T≤40°C)	0001/	1.1.1/	10
	230V 400V	kW kW	12 21
	400V 500V	kW	26
	690V	kW	36
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	090 v	r v v	30
	≤24V	А	17
	≤24∨ 48V	A	15
	48V 75V	A	15
	110V	A	6
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	2201	Α	
	≤24V	А	20
	48V	A	20
	48V 75V	A	20
	110V	A	13
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			•
	≤24V	А	22
	48V	A	22
	75V	A	20
	110V	A	16
	220V	A	11
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
· · · · · · · · · · · · · · · · · · ·	≤24V	А	22
	48V	A	22
	75V	A	20
	110V	A	18
	220V	A	13

IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series



		≤24V	А	12
		48V	А	11
		75V	А	11
		110V	А	2
		220V	А	_
IEC max current le in l	DC3-DC5 with L/R \leq 15ms with 2 poles in series			
		≤24V	А	15
		48V	А	13
		75V	А	13
		110V	А	8
		220V	A	2
IEC max current le in l	DC3-DC5 with L/R \leq 15ms with 3 poles in series			_
		≤24V	А	18
		48V	A	18
		48 V 75 V	A	16
		110V	A	12
		220V		
IFC many automatical in I	DC2 $DC5$ with $1/D < 45$ may with 4 malas in series	2200	A	6
IEC max current le in l	DC3-DC5 with L/R \leq 15ms with 4 poles in series	10 A) (•	10
		≤24V	A	18
		48V	A	18
		75V	A	16
		110V	A	13
		220V	A	8
	urrent for 10s (IEC/EN60947-1)		A	200
Protection fuse				
		gG (IEC)	A	32
		aM (IEC)	A	20
Making capacity (RMS			Α	180
Breaking capacity at ve	oltage			
		440V	А	144
		500V	Α	120
		690V	А	94
Resistance per pole (a	average value)		mΩ	2.5
Power dissipation per	pole (average value)			
		lth	W	2.6
		AC3	W	0.8
Tightening torque for t	erminals			
0 0 1		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for c	coil terminal	max		
		min	Nm	0.8
		max	Nm	1
		min	Ibin	Prodotti finiti
		max	Ibin	Prodotti finiti
Max number of wires a	simultaneously connectable	max	Nr.	2
Conductor section			INI.	۷
Conductor Section	Elevible w/e lue egy duster section			
	Flexible w/o lug conductor section			4
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section		2	
		min	mm²	1

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

		max	mm²	4
	Flexible with insulated spade lug conductor s	ection		
		min	mm²	1
		max	mm²	4
	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	358
Auxiliary contact chara	cteristics			
Type of contact				1 NO
Thermal current Ith			А	10
IEC/EN 60947-5-1 des	signation			A600 - P600
Operating current AC1	5			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC1	2	110V	А	5.7
Operating current DC1	3	1100	Α	5.7
Operating current DO	5	24V	А	5.7
		24 V 48 V	A	2.9
		40V 60V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.55
		600V	A	0.2
Operations		0001	7.	0.2
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
	Dd according to EN/ISO 13489-1			
	0	rated load	cycles	1600000
		mechanical load	cycles	2000000
Mirror contats accordir	ng to IEC/EN 609474-4-1		,	Yes
EMC compatibility	×			Yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	· ·	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cor	sumption 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			
		in-rush	VA	75
		holding	VA	9
Dissipation at holdin			W	2.5
Max cycles frequend				
Mechanical operatio	n		cycles/h	3600
Operating times				
Average time for Us				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			10
		min	ms	10
		max	ms	20
	Closing NC	min		1 /
		min	ms	14 28
	Opening NC	max	ms	20
	Opening NC	min	ms	7
		max	ms	, 18
UL technical data		Шах	1113	10
	A) for three-phase AC motor			
		at 480V	А	14
		at 600V	A	17
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	3
	for three-phase AC motor			
	,	200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protect	ion fuse, 600V			
	High fault			

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		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	80
Contact rating of a	uxiliary contacts according to UL			A600 - P600
Ambient condition	S			
Temperature				
·	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prot	ection			
Pollution degree				3
Dimensions				
Wiring diagrams				
	e e e e e e e e e e e e e e e e e e e			
Certifications and	compliance			
Compliance	004 000 0 0 000 17 1			
	CSA C22.2 n° 60947-1			
	CSA C22.2 n° 60947-4-1			
	IEC/EN 60947-1			
	IEC/EN 60947-4-1			
	UL 60947-1			
	UL 60947-4-1			
Certificates				
	000			_
	cULus			
	EAC			
ETIM classification	n			
				EC000066 -
ETIM 8.0				Power contactor,

Power contacto AC switching

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