



Product designation	Power contactor
Product type designation	BF18
On the start of a contract of the contract of	

Product type designation			DF 10
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	18
	AC-4 (400V)	Α	8.5
Rated operational power AC-3 (T≤55°C)	,		
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
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	17
	48V	Α	15
	75V	Α	15
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
·	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	13
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	16
			. •



	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	18
	220V	Α	13
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	11
	75V	Α	11
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	15
	48V	Α	13
	75V	Α	13
	110V	Α	8
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
· ·	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	12
	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V	- , ,	
120 max can once in 200 200 mar 2/10 from that it poles in conce	≤24V	Α	18
	48V	A	18
	75V	A	16
	110V	A	13
	220V	A	8
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	200
Protection fuse			200
1 Totalian Tuda	gG (IEC)	Α	32
	aM (IEC)	A	20
Making capacity (RMS value)	aivi (ILO)	A	180
Breaking capacity (NWS value)			100
Broaking dapaoity at voltage	440V	Α	144
	500V	A	120
	690V	A	94
Resistance per pole (average value)	030 V	mΩ	2.5
Power dissipation per pole (average value)		11177	۷.J
rowei dissipation per pole (average value)	141-	14/	2.6
	lth	W	2.6
Tightoning town of a town in all	AC-3	VV	0.8
Tightening torque for terminals	!	Nime	1 5
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
Title to the control of the control	max	Ibin	1.5
Tightening torque for coil terminal			
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal			



May number of wines	cincultor county compostely	max	Ibin	0.74
Conductor section	simultaneously connectable		Nr.	2
Conductor Section	AWG/Kcmil			
	AWG/Remii	max		10
	Flexible w/o lug conductor section	max		10
	Tionible We lag conductor cockers	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	ŭ	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal prote	ction according to IEC/EN 60529			IP20 when
	stion according to 120/214 00020			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Majaht				35mm 360
Weight Conductor section			9	300
Conductor Section	AWG/kcmil conductor section			
	AVVG/RCITIII CONDUCTOR Section	may		10
Auxiliary contact char	actoristics	max		10
Thermal current Ith	actoristics		А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	<u> </u>			7,000 1 000
operating earroint / to		230V	Α	3
		400V	A	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	13			
		24V	Α	5.7
		48V	Α	2.9
			۸	2.3
		60V	Α	2.0
		60V 110V	A	1.25
		110V 125V		1.25 1.1
		110V 125V 220V	A A A	1.25 1.1 0.55
		110V 125V	A A	1.25 1.1
•		110V 125V 220V	A A A	1.25 1.1 0.55 0.2
Mechanical life		110V 125V 220V	A A A A	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life		110V 125V 220V	A A A	1.25 1.1 0.55 0.2
Mechanical life Electrical life Safety related data		110V 125V 220V	A A A A	1.25 1.1 0.55 0.2 20000000
Mechanical life Electrical life Safety related data	I0d according to EN/ISO 13489-1	110V 125V 220V 600V	A A A Cycles	1.25 1.1 0.55 0.2 20000000 1600000
Mechanical life Electrical life Safety related data		110V 125V 220V 600V	A A A A Cycles cycles	1.25 1.1 0.55 0.2 20000000 1600000
	med	110V 125V 220V 600V	A A A Cycles	1.25 1.1 0.55 0.2 20000000 1600000 1600000 20000000
Mechanical life Electrical life Safety related data Performance level B1		110V 125V 220V 600V	A A A A Cycles cycles	1.25 1.1 0.55 0.2 20000000 1600000



Rated AC voltage at 5	50/60Hz			V	42
C operating voltage					
	of 50/60Hz coil powered at				
	pick	a-up	min	%Us	80
			max	%Us	110
	dro	o-out	max	7000	110
	·		min	%Us	20
			max	%Us	55
	of 50/60Hz coil powered at	60Hz			
	pick	c-up			
			min	%Us	85
	عالم		max	%Us	110
	aro	o-out	min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C		Пах	7000	- 00
.5 4.5.4go 5011 00115	of 50/60Hz coil powered at	50Hz			
		· <del></del>	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 60H	łz			
			in-rush	VA	75
Dia dia akia maraki kalaliman	<00°C 5011-		holding	VA	9
Dissipation at holding Max cycles frequency				W	2.5
Mechanical operation					
				cvcles/h	3600
				cycles/h	3600
Operating times	ontrol			cycles/h	3600
Operating times	ontrol in AC			cycles/h	3600
Operating times	in AC	sing NO		cycles/h	3600
Operating times	in AC	sing NO	min	cycles/h	8
Operating times	in AC Clos				
Operating times	in AC Clos	sing NO ening NO	min max	ms ms	8 24
Operating times	in AC Clos		min max min	ms ms ms	8 24 10
Operating times	in AC Clos Ope	ening NO	min max	ms ms	8 24
Operating times	in AC Clos Ope		min max min max	ms ms ms	8 24 10 20
Operating times	in AC Clos Ope	ening NO	min max min max min	ms ms ms ms	8 24 10 20
Operating times	in AC Clos	ening NO sing NC	min max min max	ms ms ms	8 24 10 20
Operating times	in AC Clos	ening NO	min max min max min	ms ms ms ms	8 24 10 20
Operating times	in AC Clos	ening NO sing NC	min max min max min max	ms ms ms ms	8 24 10 20 14 28
Operating times Average time for Us o	in AC Clos	ening NO sing NC	min max min max min max min	ms ms ms ms ms	8 24 10 20 14 28
Operating times Average time for Us o	in AC Clos	ening NO sing NC	min max min max min max min max	ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us o	in AC Clos Ope	ening NO sing NC	min max min max min max at 480V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of the control	in AC Clos Ope Clos Ope	ening NO sing NC	min max min max min max min max	ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us o	in AC Clos Ope Clos Ope Ope of three-phase AC motor erformance	ening NO sing NC	min max min max min max at 480V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of the control	in AC Clos Ope Clos Ope	ening NO sing NC	min max min max min max at 480V at 600V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of the control	in AC Clos Ope Clos Ope Ope of three-phase AC motor erformance	ening NO sing NC	min max min max min max at 480V at 600V	ms ms ms ms ms ms A	8 24 10 20 14 28 7 18
Operating times Average time for Us of the control	in AC Clos Ope Clos Ope Ope  The property of three-phase AC motor  erformance for single-phase AC motor	ening NO sing NC	min max min max min max at 480V at 600V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Derating times Average time for Us of the control o	in AC Clos Ope Clos Ope Ope of three-phase AC motor erformance	ening NO sing NC	min max min max min max at 480V at 600V	ms ms ms ms ms ms A	8 24 10 20 14 28 7 18



		220/230V	HP	5
		460/480V	HP	10
		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	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	80
Contact rating of aux	iliary contacts according to UL			A600 - P600
Contact rating of aux				
Ambient conditions				7.000
<u> </u>				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ambient conditions	Operating temperature			1000
Ambient conditions		min	°C	-50
Ambient conditions		min max	°C °C	
Ambient conditions				-50
Ambient conditions	Operating temperature			-50
Ambient conditions	Operating temperature	max	°C	-50 70
Ambient conditions	Operating temperature	max min	°C	-50 70 -60
Ambient conditions Temperature	Operating temperature  Storage temperature	max min	°C °C °C	-50 70 -60 80
Ambient conditions Temperature  Max altitude	Operating temperature  Storage temperature	max min	°C °C °C	-50 70 -60 80
Ambient conditions Temperature  Max altitude Resistance & Protect	Operating temperature  Storage temperature	max min	°C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature  Max altitude Resistance & Protect Pollution degree	Operating temperature  Storage temperature	max min	°C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature  Max altitude Resistance & Protect Pollution degree Certifications and con	Operating temperature  Storage temperature	max min	°C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature  Max altitude Resistance & Protect Pollution degree Certifications and con	Operating temperature  Storage temperature  tion  mpliance	max min	°C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature  Max altitude Resistance & Protect Pollution degree Certifications and con	Operating temperature  Storage temperature  tion  mpliance  CSA C22.2 n° 60947-1	max min	°C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature  Max altitude Resistance & Protect Pollution degree Certifications and con	Operating temperature  Storage temperature  tion  mpliance  CSA C22.2 n° 60947-1  CSA C22.2 n° 60947-4-1	max min	°C °C °C	-50 70 -60 80 3000
Ambient conditions Temperature  Max altitude Resistance & Protect Pollution degree Certifications and con	Operating temperature  Storage temperature  tion  mpliance  CSA C22.2 n° 60947-1  CSA C22.2 n° 60947-4-1  IEC/EN/BS 60947-1	max min	°C °C °C	-50 70 -60 80 3000