

Product designation

Product type designation

Contact characteristics

4-POLIGES SCHÜTZ, IEC BETRIEBSSTROM LTH (AC1) = 350A, AC/DC-SPULE, 60... 130VAC/DC



Power contactor

BF230

Nr. 4 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k√ Rated impulse withstand voltage Uimp 8 Operational frequency min Ηъ 25 max Hz 400 IEC Conventional free air thermal current Ith 350 Α Operational current le AC-1 (≤40°C) Α 350 AC-1 (≤55°C) Α 290 AC-1 (≤70°C) Α 250 AC-3 (≤440V ≤55°C) Α 230 AC-4 (400V) 110 Rated operational current AC-3 (T≤55°C) 230V Α 230 400V Α 230 415V Α 230 440V Α 230 500V Α 184 690V Α 165 1000V 100 Α Rated operational power AC-1 (T≤40°C) 230V kW 132 400V kW 230 500V kW 253 690V kW 397 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 350 48V Α 350 75V Α 350

110V

220V

≤24V

48V

75V

110V

220V

≤24V

48V

75V

Α

Α

Α

Α

Α

Α

Α

Α

Α

145

350

350

350

270

225

350

350

350

IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



BF230T4E110

4-POLIGES SCHÜTZ, IEC BETRIEBSSTROM LTH (AC1) = 350A, AC/DC-SPULE, 60... 130VAC/DC

	110V	Α	270
	220V	Α	270
	330V	Α	225
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	A	350
	110V	A	350
150	220V	Α	350
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	135
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
'	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	A	225
150	220V	Α	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series		_	
	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	250
	220V	Α	225
	330V	Α	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	250
	220V	A	225
	330V	A	210
	460V	A	180
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1840
Protection fuse			
	gG (IEC)	Α	400
	aM (IEC)	Α	250
Making capacity (RMS value)		Α	2300
Breaking capacity at voltage			
	440V	Α	1840
	500V	Α	1472
	690V	Α	1296
Resistance per pole (average value)	300 v	mΩ	0.18
		11122	0.10
Power dissipation per pole (average value)	Inl-	14/	0.4
	Ith	W	21
	AC-3	W	9.3
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	Ibin	159





4-POLIGES SCHÜTZ, IEC BETRIEBSSTROM LTH (AC1) = 350A, AC/DC-SPULE, 60... 130VAC/DC

Tightening torque for coil terminal	_		
	min	Nm	0.8
	max	Nm	1
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	4000
Operations			
Mechanical life		cycles	10000000
Electrical life		cycles	1000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
· ·	rated load	cycles	1000000
EMC compatibility			yes
AC coil operating			,
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	60
	max	V	130
AC operating voltage	Пих	v	100
of 50/60Hz coil powered at 50Hz			
pick-up			
ріск-ир	min	%Us	80 Us min
		%Us	110 Us max
drop out	max	7008	110 05 max
drop-out	mov	%Us	≤70 Us min
of 50/60Hz coil powered at 60Hz	max	7005	270 08 111111
·			
pick-up		0/116	80 Us min
	min	%Us	
1	max	%Us	110 Us max
drop-out		0/11	-70.11
	max	%Us	≤70 Us min
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	160230
	holding	VA	1.53.0
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	160230
9	holding	VA	1.53.0
of 60Hz coil powered at 60Hz			
	in-rush	VA	160230
	holding	VA	1.53.0
Dissipation at holding ≤20°C 50Hz		W	1.53.0
DC coil operating			
DC rated control voltage			
	min	V	60
	max	V	130
DC operating voltage	-		
pick-up			
L. 2 2L	min	%Us	85 Us min
	max	%Us	110 Us max
	max	, 500	



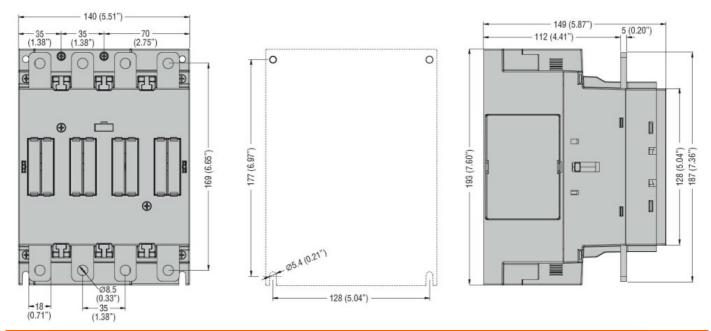


4-POLIGES SCHÜTZ, IEC BETRIEBSSTROM LTH (AC1) = 350A, AC/DC-SPULE, 60... 130VAC/DC

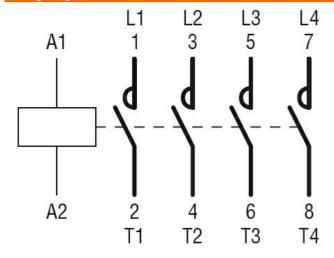
	drop-out					
	drop-out	max	%Us	≤70 Us min		
Average coil consumpt	ion ≤20°C					
		in-rush	W	160230		
		holding	W	1.53.0		
Max cycles frequency						
Mechanical operation			cycles/h	1000		
Operating times						
Average time for Us co						
	in AC					
	Closing NO			50		
		min	ms	50		
	Onaning NO	max	ms	100		
	Opening NO	min	me	30		
		max	ms ms	75		
UL technical data		illax	1110	10		
Yielded mechanical pe	rformance					
riciaca mediamoai pe	for three-phase AC motor					
	Tot tilled phase 7to motor	200/208V	HP	75		
		220/230V	HP	75		
		460/480V	HP	150		
		575/600V	HP	200		
General USE						
	Contactor					
		AC current	Α	350		
Short-circuit protection	fuse, 600V					
	High fault					
		Short circuit current	kA	100		
		Fuse rating	Α	400		
		Fuse class		J		
	Standard fault	A				
		Short circuit current	kA	10		
		Fuse rating	Α	400		
A malaine to a malitic ma		Fuse class		RK5		
Ambient conditions						
Temperature	Operating temperature					
	Operating temperature	min	°C	-40		
		max	°C	70		
	Storage temperature	Παλ		7.0		
	Clorago tomporataro	min	°C	-50		
		max	°C	80		
Max altitude		max	m	3000		
Resistance & Protection						
Pollution degree				3		
Dimensions						

ENERGY AND AUTOMATION

4-POLIGES SCHÜTZ, IEC BETRIEBSSTROM LTH (AC1) = 350A, AC/DC-SPULE, 60... 130VAC/DC



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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching