## BFK0910A12060

ENERGY AND AUTOMATION

OVATO CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 7.5KVAR, COIL 120VAC 60HZ

Product designation				Power contactor
Product type designation Contact characteristics				BFK09
			Nr.	3
Number of poles Rated insulation voltage Ui			V	<u> </u>
Rated impulse withstand vo			kV	6
Operational frequency	Shage Omp		ĸv	0
Operational frequency		min		25
		min	Hz Hz	25 400
IEC Conventional free air t	hormol ourroat th	max	<u>п</u> 2 А	25
			A	20
Rated operational power A	(C-00 (T≤40 C)	2201/	la or	A E
		230V	kvar Iavor	4.5
		400V	kvar	7.5
		440480V	kvar Iavor	9
Chart time allowable ourro	rt for 100 (IEC/ENG0047.1)	690V	kvar	10
	nt for 10s (IEC/EN60947-1)		А	150
Protection fuse				40
		gG (IEC)	A	16
Making capacity (RMS valu	,		A	90
Breaking capacity at voltag	e		_	
		440V	A	72
		500V	A	72
		690V	A	71
Resistance per pole (avera			mΩ	2.5
Power dissipation per pole	(average value)			
		lth	W	1.6
Tightening torque for termine	nals			
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for coil te	erminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	Prodotti finiti
		max	lbin	Prodotti finiti
Max number of wires simul	taneously connectable		Nr.	2
Conductor section				
Fle	exible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
Fle	exible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
Fle	exible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
	according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°

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Fixing				Screw / DIN rail 35mm
Weight			g	416
Auxiliary contact chara	acteristics			
Type of contact				1 NO
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - P600
Operating current AC1	15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC <sup>2</sup>	12	110V	A	5.7
Operating current DC	13			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	А	1.25
		125V	А	1.1
		220V	А	0.6
		600V	А	0.1
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				Yes
Rated AC voltage at 6	0Hz		V	120
AC coil operating				
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
	· · ·	max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
	umption at 20°C	max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz	in w	1/4	75
		in-rush	VA	75
	of 50/60Hz coil powered at 60Hz	holding	VA	9
	of 50/60Hz coil powered at 60Hz	in-rush	VA	70
		holding	VA VA	70 6.5
	of 60Hz coil powered at 60Hz	noiuing	VA	0.0
		in-rush	VA	75
		holding	VA VA	9
Dissipation at holding	<20°C 50H <del>7</del>	noiuing	W	2.5
			vv	2.0
Max cycles frequency Mechanical operation			cycles/h	3600

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Operating times				
Average time for Us				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
UL technical data				
General USE	•			
	Contactor	10 · ·		0.5
	A 111	AC current	A	25
	Auxiliary contacts		. /	000
		AC voltage	V	600
		AC current	A	10
		DC voltage	V	250
<u> </u>		DC current	A	1
_	ixiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
N.A. 1414 1		max	°C	80
Max altitude			m	3000
Resistance & Prote	ction			<u>_</u>
Pollution degree				3
Dimensions				
Wiring diagrams				
Certifications and c	ompliance			
Compliance				
·	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				
	CCC			
	cULus			
	EAC			
ETIM classification				
				EC001079 -
ETIM 8.0				Capacitor
				contactor