



Contact characteristics Nr. 4 Number of poles Nr. 4 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 1 IEC Conventional free air thermal current Ith A 32 0 Operational current le AC-1 (\$40°C) A 32 AC-1 (\$55°C) A 23 AC-3 (\$440V \$55°C) A 18 AC-1 (\$55°C) A 18 AC-4 (\$400V) A 5 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 26 690V kW 26 690V kW 26 690V kW 21 500V kW 26 690V kW 26 Short-time allowable current for 10s (IEC/EN60947-1) A 200 20 M(IEC) A 180	Product designation			Power contactor
Number of poles Nr. 4 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 32 Operational free air thermal current lth A 32 Operational current le AC-1 (<40°C)	Product type designation			BF18
Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp KV 6 Operational frequency min Hz 25 EC Conventional frequency min Hz 25 Coperational current le AC-1 (≤40°C) A 32 Operational current le AC-1 (≤40°C) A 22 AC-1 (≤70°C) A 23 AC-1 (≤40°C) A AC-1 (≤40°C) A 23 AC-1 (≤40°C) A AC-1 (≤40°C) A 26 AC-1 (≤40°C) A 23 AC-3 (≤440V ≤55°C) A 8.5 A 26 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V KW 21 500V kW 26 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse 20 Protection fuse gG (IEC) A 20 A 180 Breaking capacity at voltage A 180 B A			NL	
Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 12 Operational current le A 32 32 Operational current le AC-1 (s40°C) A 32 AC-1 (s10°C) A 32 AC-1 (s10°C) A 26 AC-1 (s10°C) A 23 AC-3 (s440V s55°C) A 18 AC-3 (s440V s55°C) A 18 AC-4 (400V) A 500V kW 26 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 32 Making capacity (RMS value) A 180 B B B B Breaking capacity at voltage 440V A 144 S00V A 120 Making capacity at voltage 440V A 144 S00V A 120 Power dissipation per pole (average value) mΩ A.5 AC-3 W				
Operational frequency min Hz 25 max Hz 400 400 IEC Conventional free air thermal current lth A 32 Operational current le AC-1 (\$40°C) A 32 Acc-1 (\$55°C) A 26 AC-1 (\$55°C) A 28 AC-1 (\$55°C) A 28 AC-3 (\$440V) A 55 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 21 500V kW 26 690V kW 26 690V kW 26 690V kW 26 690V kW 26 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 32 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value)				
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IEC Conventional free air thermal current lth A 32 Operational current le AC-1 (s40°C) A 32 AC-1 (s55°C) A 26 AC-1 (s55°C) A 23 AC-3 (s440V s55°C) A 8.5 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 12 400V kW 21 500V kW 26 690V kW 26 690V kW 21 500V kW 26 690V kW 26 690V kW 26 690V kW 26 690V kW 26 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Potection fuse M (IEC) A 20 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) min <				
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AC-1 (s40°C) A 32 AC-1 (s50°C) A 26 AC-1 (s57°C) A 23 AC-3 (s440V <55°C)			A	32
AC-1 (\$55°C) A 26 AC-1 (\$55°C) A 23 AC-3 (\$440V \$55°C) A 18 AC-3 (\$440V) A 8.5 Rated operational power AC-1 (T≤40°C) A 8.5 Rated operational power AC-1 (T≤40°C) X 12 400V kW 12 400V kW 26 690V kW 36 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 32 adM (IEC) A 20 A Making capacity (RMS value) A 180 Breaking capacity at voltage 400V A 144 500V A 94 A Resistance per pole (average value) mΩ 2.5	Operational current le		^	22
AC-1 (s70°C) A 23 AC-3 (≤440V) 55°C) A 18 AC-4 (400V) A 8.5 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 26 690V kW 26 690V kW 26 690V kW 26 690V kW 26 Short-time allowable current for 10s (IEC/EN60947-1) A 200 20 Protection fuse gG (IEC) A 32 alM (IEC) A 20 Making capacity (RMS value) A 180 30 30 30 30 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 30 30 30 30 30 Power dissipation per pole (average value) mΩ 2.5 30 30 30 30 Tightening torque for terminals min Nm 1.5				
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AC-4 (400V) A 8.5 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 21 500V kW 26 690V kW 36 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 32 Protection fuse gG (IEC) A 32 adm (IEC) A 20 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) min Nm 1.5 max Nm 1.8 Tightening torque for terminals min Nm 1.5 1.5 1.5 Tightening torque for coil terminal min Nm 1.5 1.5 1.5		. ,		
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500V kW 26 690V kW 36 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 32 aM (IEC) A 20 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 26 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Tightening torque for terminals min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 1.8 min Ibin 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 Max				
690V kW 36 Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 32 aM (IEC) A 20 Making capacity (RMS value) A 180 Breaking capacity at voltage A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 max Nm 1.8 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 min <				
Short-time allowable current for 10s (IEC/EN60947-1) A 200 Protection fuse gG (IEC) A 32 aM (IEC) A 20 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 max Nm 1.5				
Protection fuse gG (IEC) A 32 aM (IEC) A 20 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 min 1.1 Tightening torque for coil terminal min 1.5 Tightening torque for coil terminal Min Nm 1.5 Tightening torque for coil terminal min Nm 1.5	Short time allowable current for 10c (IEC/EN60047.1)	8901		
gG (IEC) A 32 add (IEC) A 20 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal Tightening torque for coil terminal min Nm 0.8 Min 1.5 max Nm 1.5			A	200
aM (IEC) A 20 Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 max Nm 1.5 Tightening torque for coil terminal min Nm 1.5 1.5 1.5 Tightening torque for coil terminal min Nm 1.5 1.5	FICIECIIOITIUSE		۸	22
Making capacity (RMS value) A 180 Breaking capacity at voltage 440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 Tightening torque for coil terminal min Nm 1.5 Tightening torque for coil terminal min Nm 1.8 min Ibin 1.1 max Nm 1.8 min Ibin 1.5 Tightening torque for coil terminal Min 0.8 Max Nm 1.5 Min 1.5 Min 1.5				
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440V A 144 500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 11 Tightening torque for terminals min Nm 1.5 Tightening torque for coil terminal min 1.6 1.1 max Nm 1.8 1.1 max Ibin 1.5 1.5 Tightening torque for coil terminal min 1.6 1.5 Tightening torque for coil terminal 0.8 1.5 1.5			A	160
500V A 120 690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min 1bin 1.5 Tightening torque for coil terminal min Ibin 1.5 1.5 Tightening torque for coil terminal min Ibin 1.5	breaking capacity at voltage	4401/	٨	1 1 1
690V A 94 Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min 1bin 1.1 max Ibin 1.5 1.5 1.5 Tightening torque for coil terminal min Nm 1.8 min Ibin 1.1 1.5 Tightening torque for coil terminal min 1.6 Min Nm 1.8 1.1 max Ibin 1.5 1.5 Tightening torque for coil terminal min 1.6 Min Nm 1.8 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 1.5 Min Nm 1.8 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 1.7 1.7				
Resistance per pole (average value) mΩ 2.5 Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 1.5 1.5 Tightening torque for coil terminal min Nm 0.8 Tightening torque for coil terminal min Nm 0.8 Min Nm 0.8 1.5 Tightening torque for coil terminal min Nm 0.8 Min Nm 0.8 1.5 Tightening torque for coil terminal min Nm 0.8 Min Nm 0.8 1 1.5				
Power dissipation per pole (average value) Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74	Posistanco por polo (averago valuo)	8901		
Ith W 2.6 AC-3 W 0.8 Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 1.5 1.5 Tightening torque for coil terminal min Nm 0.8 Tightening torque for coil terminal min Nm 0.8 Min Ibin 0.8 1 Min Ibin 0.8 1 Min Ibin 0.8 1 Min Ibin 0.74 1			11152	2.0
AC-3W0.8Tightening torque for terminalsminNm1.5maxNm1.8minIbin1.1maxIbin1.51.51.5Tightening torque for coil terminalminNm0.8maxNm11.11.1maxIbin1.51.5Tightening torque for coil terminalminNm0.8maxNm11.11.1maxNm11.11.1maxIbin0.741.1	Fower dissipation per pole (average value)	Ith	14/	2.6
Tightening torque for terminals min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74				
min Nm 1.5 max Nm 1.8 min Ibin 1.1 max Ibin 1.5 Tightening torque for coil terminal	Tightoping torque for terminals	AC-3	vv	0.0
maxNm1.8minIbin1.1maxIbin1.5Tightening torque for coil terminalminNm0.8maxNm1minIbin0.8maxIbin0.8maxIbin0.74		min	Nim	1 5
minIbin1.1 maxTightening torque for coil terminal1.5Tightening torque for coil terminalminNm0.8 maxNm1 ninIbin0.8 max0.8 maxIbin0.74				
maxIbin1.5Tightening torque for coil terminalminNm0.8maxNm1minIbin0.8maxIbin0.8maxIbin0.74				
Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74				
min Nm 0.8 max Nm 1 min Ibin 0.8 max Ibin 0.74	Tightening torque for coil terminal	IIIdX		1.0
max Nm 1 min Ibin 0.8 max Ibin 0.74		min	Nm	0.8
min Ibin 0.8 max Ibin 0.74				
max Ibin 0.74				
	Max number of wires simultaneously connectable	IIIdX	Nr.	2



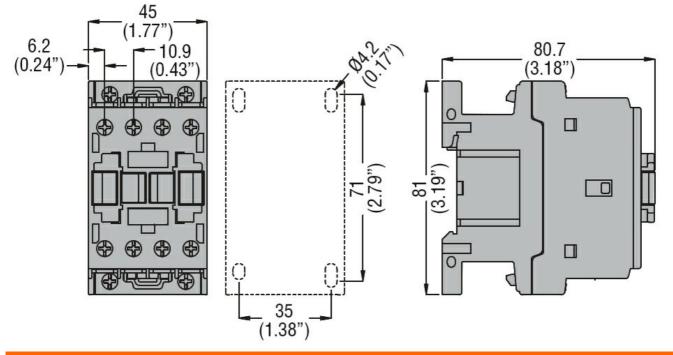
	AWG/Kcmil		
	AWG/KCIIII	ах	10
	Flexible w/o lug conductor section		10
	-	in mm²	1
	ma	ax mm²	6
	Flexible c/w lug conductor section		
	m		1
	ma	ax mm²	4
	Flexible with insulated spade lug conductor section		
	m		1
	ma	ax mm²	4 IP20 when
Power terminal protect	ction according to IEC/EN 60529		properly wired
Mechanical features			property milea
Operating position			
	norm	al	Vertical plan
	allowab	le	±30°
Fixing			Screw / DIN rail
-			35mm
Weight		g	372
Conductor section			
	AWG/kcmil conductor section		10
Auxiliary contact chara	Actoristics	ax	10
Thermal current Ith		А	32
IEC/EN 60947-5-1 de	signation	Λ	A600 - P600
Operations			1000 1000
		ovelee.	20000000
Mechanical life		cycles	20000000
Electrical life		cycles cycles	20000000 1600000
Electrical life Safety related data	0d according to EN/ISO 13489-1		
Electrical life Safety related data	0d according to EN/ISO 13489-1 rated loa	cycles	
Electrical life Safety related data	-	cycles ad cycles	1600000
Electrical life Safety related data Performance level B1 Mirror contats accord	rated loa	cycles ad cycles	1600000 1600000
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility	rated loa mechanical loa	cycles ad cycles	1600000 1600000 20000000
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating	rated loa mechanical loa ing to IEC/EN 609474-4-1	cycles ad cycles ad cycles	1600000 1600000 20000000 YES yes
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	rated loa mechanical loa ing to IEC/EN 609474-4-1	cycles ad cycles	1600000 1600000 20000000 YES
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating	rated loa mechanical loa ing to IEC/EN 609474-4-1	cycles ad cycles ad cycles	1600000 1600000 20000000 YES yes
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	rated loa mechanical loa ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	cycles ad cycles ad cycles	1600000 1600000 20000000 YES yes
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	rated loa mechanical loa ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	cycles ad cycles ad cycles V	1600000 1600000 20000000 YES yes 460
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	rated loa mechanical loa ing to IEC/EN 609474-4-1 SOHz of 60Hz coil powered at 60Hz pick-up m	cycles ad cycles ad cycles V	1600000 1600000 20000000 YES yes 460 80
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	rated loa mechanical loa ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up ma	cycles ad cycles ad cycles V	1600000 1600000 20000000 YES yes 460
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	rated loa mechanical loa ing to IEC/EN 609474-4-1 SOHz of 60Hz coil powered at 60Hz pick-up m	cycles ad cycles ad cycles V v	1600000 1600000 20000000 YES yes 460 80
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	rated loa mechanical loa ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up ma drop-out	cycles ad cycles ad cycles V in %Us ax %Us in %Us	1600000 1600000 20000000 YES yes 460 80 110
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	rated loa mechanical loa ing to IEC/EN 609474-4-1 30Hz of 60Hz coil powered at 60Hz pick-up ma drop-out ma	cycles ad cycles ad cycles V in %Us ax %Us in %Us	1600000 1600000 20000000 YES yes 460 80 110 20
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	rated loa mechanical loa ing to IEC/EN 609474-4-1 30Hz of 60Hz coil powered at 60Hz pick-up ma drop-out ma	cycles ad cycles ad cycles V in %Us ax %Us in %Us	1600000 1600000 20000000 YES yes 460 80 110 20 55
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	rated loa mechanical loa ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up ma drop-out ma umption at 20°C of 60Hz coil powered at 60Hz	cycles ad cycles ad cycles V in %Us ax %Us in %Us ax %Us	1600000 1600000 20000000 YES yes 460 80 110 20 55 75
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	rated loa mechanical loa ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up m drop-out m umption at 20°C of 60Hz coil powered at 60Hz in-rus holdir	cycles ad cycles ad cycles V in %Us ax %Us in %Us ax %Us sh VA ng VA	1600000 1600000 20000000 YES yes 460 80 110 20 55 75 9
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding	rated loa mechanical loa ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up ma drop-out ma umption at 20°C of 60Hz coil powered at 60Hz in-rus holdir ≤20°C 50Hz	cycles ad cycles ad cycles V in %Us ax %Us in %Us ax %Us	1600000 1600000 20000000 YES yes 460 80 110 20 55 75
Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	rated loa mechanical loa ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up ma drop-out ma umption at 20°C of 60Hz coil powered at 60Hz in-rus holdir ≤20°C 50Hz	cycles ad cycles ad cycles V in %Us ax %Us in %Us ax %Us sh VA ng VA	1600000 1600000 20000000 YES yes 460 80 110 20 55 75 9 2.5



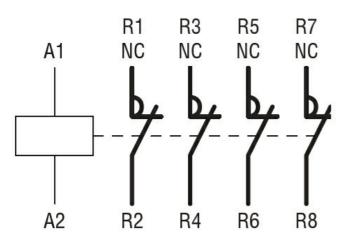
Operating times				
Average time for Us	control			
0	in AC			
	Closing NO			
	5	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
	Ŭ	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
	A) for three-phase AC motor			
Υ.		at 480V	А	14
		at 600V	A	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		010,0001		
	Contactor			
	Contactor	AC current	А	32
	Auxiliary contacts			02
	Advinary contacto	AC voltage	V	600
		AC current	Å	10
		DC voltage	V	250
		DC voltage DC current	Å	1
Contact rating of au	xiliary contacts according to UL	Do ouriont	/ \	SI - A600
Ambient conditions				
Temperature				
romporature	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	IIIdX	U	10
	Giorage iemperature	min	°C	-60
			°C	80
Max altitude		max		3000
Resistance & Protect	ction		m	3000
				3
Pollution degree				ა
Dimensions				



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 460VAC, 4NC



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

BF18T0A46060