

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 110VAC, 2NO AND 2NC



Product type designation Section Secti				
Contact characteristics 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 IEC Conventional free air thermal current Ith A 56 Operational current Ie AC-1 (≤40°C) A 56 AC-1 (≤40°C) with 16mm² wire and fork end lugA 60 max AC-1 (≤55°C) A 45 AC-1 (≤55°C) A 45 AC-1 (≤40°C) with 16mm² wire and fork end lugA 60 max AC-1 (≤57°C) A 40 max AC-1 (≤70°C) AC-1 (≤70°C) AC-1 (≤70°C) AC-1 (≤70°C) A 40 max AC-1 (≤70°C) AC-1 (≤70°	Product type designation			Power contactor
Number of poles	<u> </u>			B1 00
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 56 Operational current le AC-1 (≤40°C) with 16mm² wire and fork end lugA 60 AC-1 (≤40°C) with 16mm² wire and fork end lugA 40 AC-1 (≤55°C) with 16mm² wire and fork end lugA 48 AC-1 (≤55°C) with 16mm² wire and fork end lugA 42 42 AC-1 (≤70°C) with 16mm² wire and fork end lugA 42 AC-1 (≤70°C) with 16mm² wire and fork end lugA 42 42 AC-1 (≤70°C) with 16mm² wire and fork end lugA 42 AC-1 (≤70°C) with 16mm² wire and fork end lugA 42 42 AC-3 (≤440 ∨ 55°C) A 38 Rated operational power AC-1 (T≤40°C) 230V kW 42 <t< td=""><td></td><td></td><td>Nr.</td><td>4</td></t<>			Nr.	4
Rated impulse withstand voltage Ulimp				
Operational frequency min max Hz max Hz max Hz max Hz Hz max				
min Hz 25 max Hz 400 EC Conventional free air thermal current lth				
Max	.,	min	Hz	25
Operational current le AC-1 (≤40°C) Mith 16mm² wire and fork end lugA and C-1 (≤55°C) May and fork end lugA and C-1 (≤55°C) Mith 16mm² wire and fork end lugA and C-1 (≤70°C) Mith 16mm² wire and fork end lugA and C-1 (≤70°C) Mith 16mm² wire and fork end lugA and AC-1 (≤70°C) Mith 16mm² wire and fo				
AC-1 (≤40°C) A 56 AC-1 (≤40°C) with 16mm² wire and fork end UgA AC-1 (≤55°C) with 16mm² wire and fork end UgA AC-1 (≤55°C) with 16mm² wire and fork end UgA AC-1 (≤70°C) A AC-1 (≤70°C) A AC-1 (≤70°C) A AC-3 (≤440√ ≤55°C) A AC-3 (≤440√ ≤55°C) A AC-4 (400√) A AC-4 (400√) A AC-5 (≤400√) A AC-6 (400√) A AC-7 (≤70°C) A AC-7 (≤70°C) A AC-8 (≤400√) A AC-9 (≤70°C) A AC-	IEC Conventional free air thermal current Ith		Α	56
AC-1 (≤40°C) A 56 AC-1 (≤40°C) with 16mm² wire and fork end UgA AC-1 (≤55°C) with 16mm² wire and fork end UgA AC-1 (≤55°C) with 16mm² wire and fork end UgA AC-1 (≤70°C) A AC-1 (≤70°C) A AC-1 (≤70°C) A AC-3 (≤440√ ≤55°C) A AC-3 (≤440√ ≤55°C) A AC-4 (400√) A AC-4 (400√) A AC-5 (≤400√) A AC-6 (400√) A AC-7 (≤70°C) A AC-7 (≤70°C) A AC-8 (≤400√) A AC-9 (≤70°C) A AC-	Operational current le			
AC-1 (≤55°C) A	•	AC-1 (≤40°C)	Α	56
AC-1 (≤55°C) A			lugA	60
AC-1 (≤70°C) with 16mm² wire and fork end lugA A2 A2 AC-3 (≤440V ≤50°C) A A3 A3 AC-4 (400V) A A A5 AC-4 (400V) A A5 AC-4 AC-4 (400V) A A5 AC-4 A			•	45
AC-1 (≤70°C) with 16mm² wire and fork end lugA A2 A2 AC-3 (≤440V ≤50°C) A A3 A3 AC-4 (400V) A A A5 AC-4 (400V) A A5 AC-4 AC-4 (400V) A A5 AC-4 A			lugA	48
AC-1 (≤70°C) with 16mm² wire and fork end lugA AC-3 (≤440V ≤55°C) A 38 AC-4 (400V) A 15.5 Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) 230V kW 21 400V kW 36 500V kW 45 690V kW 62 800			_	40
AC-3 (≤440V ≤55°C) A 38 AC-4 (400V) A 15.5			lugA	42
Rated operational power AC-1 (T≤40°C) 230V kW 21 400V kW 36 500V kW 45 690V kW 62 Short-time allowable current for 10s (IEC/EN60947-1) A 320 Protection fuse gG (IEC) A 63 aM (IEC) A 40 Making capacity (RMS value) A 380 Breaking capacity at voltage 440V A 304 500V A 240 690V A 192 Resistance per pole (average value) mΩ 2 Power dissipation per pole (average value) Tightening torque for terminals min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2 Tightening torque for coil terminal		AC-3 (≤440V ≤55°C)	A	38
230V kW 21 400V kW 36 500V kW 45 690V kW 62 69		AC-4 (400V)	Α	15.5
\$\frac{400V}{500V} \ kW \ 45 \\ 690V \ kW \ 62 \end{align*} Short-time allowable current for 10s (IEC/EN60947-1)	Rated operational power AC-1 (T≤40°C)			
Soov kW 45 690V kW 62		230V	kW	21
Short-time allowable current for 10s (IEC/EN60947-1)		400V	kW	36
Short-time allowable current for 10s (IEC/EN60947-1)		500V	kW	45
Protection fuse gG (IEC)		690V	kW	62
GG (IEC)	Short-time allowable current for 10s (IEC/EN	60947-1)	Α	320
Making capacity (RMS value)	Protection fuse			
Making capacity (RMS value) A 380 Breaking capacity at voltage 440V A 304 4500V A 240 690V A 192 Resistance per pole (average value) mΩ 2 Power dissipation per pole (average value) Ith W 6 6 AC-3 W 2.9 Tightening torque for terminals min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2 Tightening torque for coil terminal min Nm 0.8		gG (IEC)	Α	63
Breaking capacity at voltage		aM (IEC)	Α	40
440V A 304 500V A 240 690V A 192 7 7 7 7 7 7 7 7 7	Making capacity (RMS value)		Α	380
Soov A 240 690V A 192	Breaking capacity at voltage			
Resistance per pole (average value) mΩ 2		440V	Α	304
Resistance per pole (average value) mΩ 2		500V	Α	240
Power dissipation per pole (average value) Ith W 6 AC-3 W 2.9 Tightening torque for terminals min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2 Tightening torque for coil terminal min Nm 0.8		690V	Α	192
Ith W 6 AC-3 W 2.9	Resistance per pole (average value)		mΩ	2
AC-3 W 2.9	Power dissipation per pole (average value)			
Tightening torque for terminals min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2 Tightening torque for coil terminal min Nm 0.8		Ith	W	6
min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2 Tightening torque for coil terminal		AC-3	W	2.9
max Nm 3 min Ibin 1.8 max Ibin 2.2 Tightening torque for coil terminal min Nm 0.8	Tightening torque for terminals			
max Nm 3 min Ibin 1.8 max Ibin 2.2 Tightening torque for coil terminal min Nm 0.8		min	Nm	2.5
min Ibin 1.8 max Ibin 2.2 Tightening torque for coil terminal min Nm 0.8		max	Nm	
max Ibin 2.2 Tightening torque for coil terminal min Nm 0.8				
min Nm 0.8		max	Ibin	
min Nm 0.8	Tightening torque for coil terminal			
		min	Nm	0.8
		max		



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		min	lbin	0.8
-		max	lbin	0.74
	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor	section		
		min	mm²	1
		max	mm²	10
Power terminal protect	tion according to IEC/EN 60529			IP20 when
·	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	510
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data				
•	od according to EN/ISO 13489-1			
	9	rated load	cycles	1400000
		mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1		-,	YES
EMC compatibility				yes
AC coil operating				you
Rated AC voltage at 50	7/60Hz		V	110
AC operating voltage	J. 501.12		v	
, to operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ρισκ-αρ	min	%Us	80
		max	%Us	110
	drop-out	IIIdX	/008	110
	diop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	IIIdX	/003	33
	pick-up			
	ріск-ир	min	%Us	85
		min		
	deam and	max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
AC average coil consu		max	%Us	55
	motion at 2017			



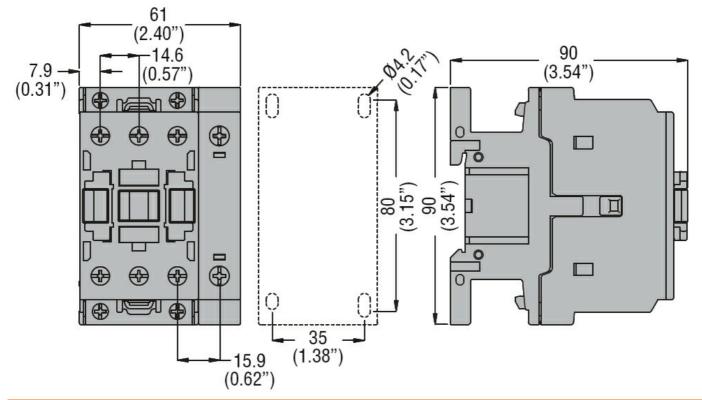
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	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
	·	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			-
	•	in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cvcles/h	3600
Operating times			o y 0.00,.	
Average time for Us c	ontrol			
Avorago anno for co o	in AC			
	Closing NO			
	Closing IVO	min	ms	8
		max	ms	24
	Opening NO	Шах	1113	4 7
	Opening NO	min	ms	5
		max	ms	15
	Closing NC	Παλ	1113	13
	Glosling NO	min	ms	11
		max	ms	29
	Opening NC	Παλ	1113	29
	Opening NC	min	mc	6
			ms ms	14
UL technical data		max	ms	14
) for three-phase AC motor			
r dir load carrett (r LA) for three phase Ao motor	at 480V	Α	40
		at 600V	A	32
Yielded mechanical pe	orformanco	at 000 v		J2
rielueu mechanicai pi				
	for single-phase AC motor	110/120V	HP	3
		230V	HP	
	for three phase AC mater	2301	ПР	7.5
	for three-phase AC motor	200/2001	UD	10
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
0		575/600V	HP	30
General USE	October			
	Contactor	• •		
A		AC current	Α	55
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	<u>on</u>			
	OH			
Pollution degree				3

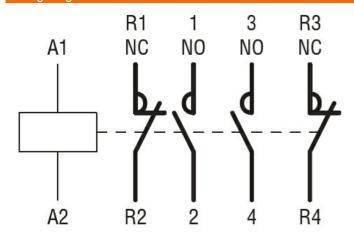
ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 110VAC, 2NO AND 2NC

Dimensions



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



BF38T2A110

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 110VAC, 2NO AND 2NC

ETIM 8.0

EC000066 -Power contactor, AC switching