

# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 230VAC



Product type designation  Contact characteristics  Number of poles  Rated insulation voltage Ui  Rated impulse withstand voltage Uimp  Operating frequency  Operational frequency min Operational frequency max  Conventional free air thermal current Ith  Operational current Operational current Operational current Operational current	nr. V kV Hz Hz	3 690 6
Number of poles Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency Operational frequency min Operational frequency max Conventional free air thermal current Ith Operating current	V kV Hz Hz	690 6
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency Operational frequency min Operational frequency max Conventional free air thermal current Ith Operating current	V kV Hz Hz	690 6
Rated impulse withstand voltage Uimp  Operating frequency  Operational frequency min Operational frequency max  Conventional free air thermal current Ith Operating current	Hz Hz	
Operating frequency Operational frequency min Operational frequency max Conventional free air thermal current Ith Operating current	Hz	25
Operational frequency min Operational frequency max  Conventional free air thermal current Ith  Operating current	Hz	25
Conventional free air thermal current Ith Operating current		
Operating current	۸	400
	_	56
Operational aureant AC2 (Z440)/ ZEE°C)		
Operational current AC3 (≤440V ≤55°C)	Α	38
Operational current AC4 (400V)	Α	15.5
Short-time allowable current for 10s (IEC/EN60947-1)	Α	320
Protection fuse		
gG (IEC)	Α	63
aM (IEC)	Α	40
Making capacity (RMS value)	Α	380
Breaking capacity at voltage		
Breaking capacity 440V	Α	304
Breaking capacity 500V	Α	240
Breaking capacity 690V	Α	192
Resistance per pole (average value)	mΩ	2
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	6
AC3	W	2.9
Tightening torque for terminals		
min	Nm	2.5
max	Nm	3
min	lbft	1.8
max	lbft	2.2
Tightening torque for coil terminal		0.0
min	Nm	0.8
max	Nm	1
min	lbft	0.59
max	Ibft	0.74
max number of wires simultaneously connectable	nr.	2
Conductor section		
AWG		14
min max		6
Flexible w/o lug conductor section		U
riexible w/o lag corladctor section min	mm²	2.5
max	mm²	16
Flexible c/w lug conductor section	111111	10



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		min	mm²	1
	E 21 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	max	mm²	10
	Flexible with insulated spade lug conductor section			4
		min	mm²	1
D	"	max	mm²	10
	tion according to IEC/EN 60529			IP20
Ambient conditions				
Temperature				
	Operating temperature		° C	50
		min	°C	-50 -70
	Otomore to man another	max	<u> </u>	70
	Storage temperature		°C	00
		min	°C	-60
May altitude		max		80
Max altitude			m	3,000
Operating position				Made alaka
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
\/\a:ab4				
Weight Operations			g	0.432
Mechanical life			Cyalaa	20,000,000
			Cycles	20,000,000
Electrical life			Cycles	1400000
Safety related data				V
	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating				
	0/0011 0011			
Rated AC voltage at 5	0/60Hz, 60Hz		.,	4.0
Rated AC voltage at 5	0/60Hz, 60Hz	min	V	12
	0/60Hz, 60Hz	min max	V V	12 600
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		max	V	600
	of 50/60Hz coil powered at 50Hz	max	V %Us	80
	of 50/60Hz coil powered at 50Hz pick-up	max	V	600
	of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	80 110
	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us	80 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max	V %Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max	%Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	min max min max	V %Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz	min max min max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz pick-up	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 20 55

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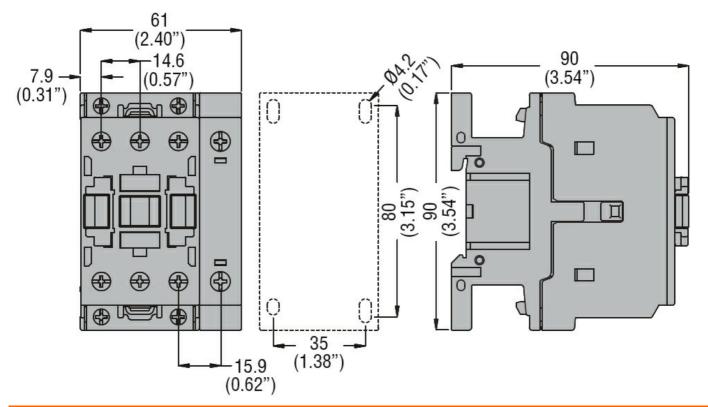


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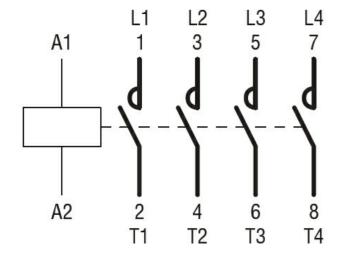
	of 50/60Hz coil powere	d at 50Hz			
	01 00/00112 0011 powere	a at 00112	in-rush	VA	75
			holding	VA	9
	of 50/60Hz coil powere	d at 60Hz	Holding	٧/١	
	of 30/00112 coll powere	a at 00112	in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil powered a	+ 60∐-z	Holding	V/\	0.5
	or doriz con powered a	1 00112	in-rush	VA	75
			holding	VA VA	9
Dissinction at halding	-20°C E0U¬		Holding	W	2.5
Dissipation at holding ≤	20 C 50HZ			VV	2.5
Max cycles frequency				0	0.000
Mechanical operations				Cycles/h	3,600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			_
			min	ms	8
		_	max	ms	24
		Opening NO			
			min	ms	5
			max	ms	15
		Closing NC			
			min	ms	9
			max	ms	20
		Opening NC			
			min	ms	9
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC moto	or			
			at 480V	Α	40
			at 600V	Α	32
Yielded mechanical per	rformance				
	for single-phase AC me	otor			
			at 110/120V	hp	3
			at 230V	hp	7.5
	for three-phase AC mo	tor		-	
	-		at 200/208V	hp	10
			at 220/230V	hp	15
			at 460/480V	hp	30
			at 575/600V	hp	30
Contact rating of auxilia	ary contacts according to	UL		· · · · · · · · · · · · · · · · · · ·	SI - A600
General USE	, ,				
	Contactor				
			AC current	Α	32
	Auxiliary contacts			<u> </u>	
			AC voltage	V	600
			AC current	Å	10
			DC voltage	V	250
			DC voltage DC current	A	1
Dimensions			DO CONTONE	, \	•
DIMICHOIDHO					

**ENERGY AND AUTOMATION** 

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#### Wiring diagrams



### Certifications and compliance

Certifications

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

Compliance

CCC

cULus

EAC

#### ETIM 6 classification

EC000066 - Power contactor, AC switching