



Product designation

Power contactor

Product type designation

B400

**Contact characteristics**

Number of poles	Nr.	4
Rated insulation voltage $U_i$ IEC/EN	V	1000
Rated impulse withstand voltage $U_{imp}$	kV	8
Operational frequency	min Hz	25
	max Hz	400
IEC Conventional free air thermal current $I_{th}$	A	550
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 550
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 430
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 360
	AC-3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A 420
	AC-4 (400V)	A 200
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V kW	200
	400V kW	345
	500V kW	452
	690V kW	598
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	75V A	400
	110V A	250
	220V A	--
	330V A	--
	460V A	--
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	75V A	400
	110V A	400
	220V A	350
	330V A	--
	460V A	--
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	75V A	400
	110V A	400
	220V A	400
	330V A	350
	460V A	--
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series	75V A	400
	110V A	400
	220V A	400
	330V A	400
	460V A	350

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 1 poles in series

75V	A	350
110V	A	200
220V	A	--
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 2 poles in series

75V	A	350
110V	A	350
220V	A	280
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 3 poles in series

75V	A	350
110V	A	350
220V	A	350
330V	A	280
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 4 poles in series

75V	A	350
110V	A	350
220V	A	350
330V	A	280
460V	A	280

Short-time allowable current for 10s (IEC/EN60947-1)

A	3600
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Protection fuse

gG (IEC)	A	630
aM (IEC)	A	400

Making capacity (RMS value)

A	4200
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Breaking capacity at voltage

440V	A	4000
500V	A	3400
690V	A	3360

Resistance per pole (average value)

m?	0.2
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Power dissipation per pole (average value)

$I_{th}$	W	52
AC3	W	32

Tightening torque for terminals

min	Nm	35
max	Nm	35
min	lbin	25.8
max	lbin	25.8

Tightening torque for coil terminal

min	Nm	1
max	Nm	1
min	lbin	0.74
max	lbin	0.74

Max number of wires simultaneously connectable

Nr.	2
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Conductor section

AWG/Kcmil

max	2x 300 kcmil
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Power terminal protection according to IEC/EN 60529

IP00

**Mechanical features**

## Operating position

	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	1114

## Conductor section

AWG/kcmil conductor section

max

2x 300 kcmil

## Operations

Mechanical life	cycles	10000000
Electrical life	cycles	700000

## Safety related data

Performance level B10d according to EN/ISO 13489-1

	rated load	cycles	700000
	mechanical load	cycles	10000000

Mirror contacts according to IEC/EN 60947-4-1

yes

EMC compatibility

yes

## AC coil operating

Rated AC voltage at 50/60Hz, 60Hz

min	V	440
max	V	480

## AC operating voltage

of 50/60Hz coil powered at 50Hz  
pick-up

min	%Us	80
max	%Us	110

drop-out

min	%Us	20
max	%Us	60

of 50/60Hz coil powered at 60Hz  
pick-up

min	%Us	80
max	%Us	110

drop-out

min	%Us	20
max	%Us	60

of 60Hz coil powered at 60Hz  
pick-up

min	%Us	80
max	%Us	110

drop-out

min	%Us	20
max	%Us	60

## AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

in-rush	VA	300
holding	VA	10

of 50/60Hz coil powered at 60Hz

in-rush	VA	300
holding	VA	10

Dissipation at holding ≤20°C 50Hz

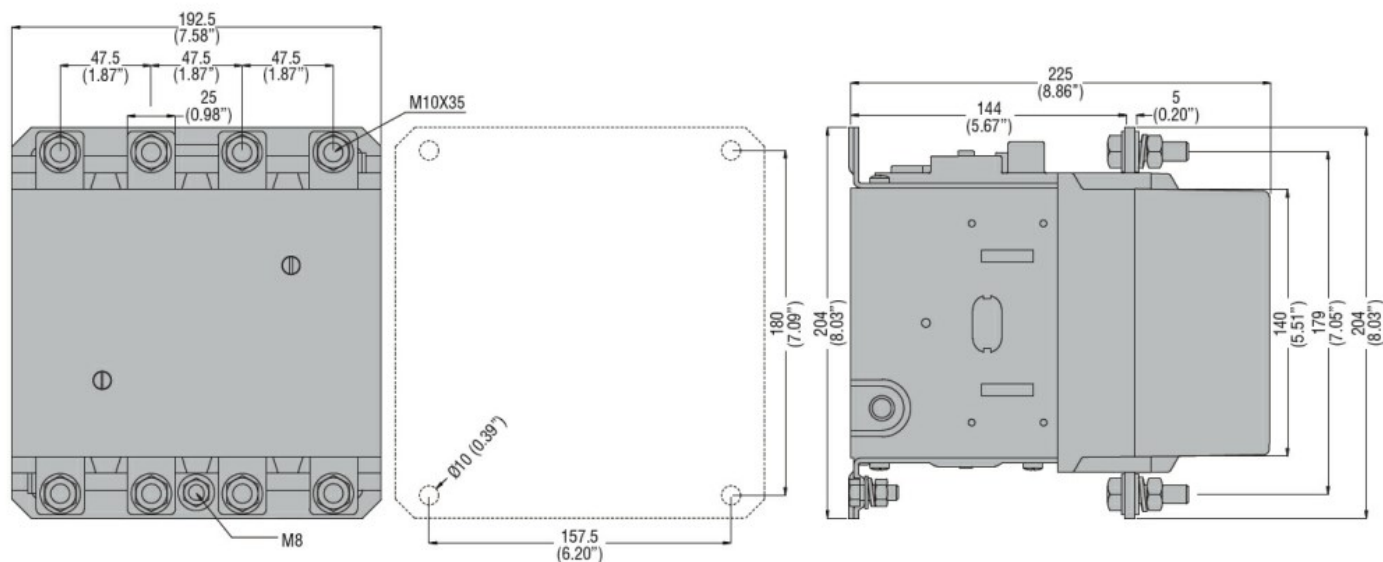
W	10
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## DC coil operating

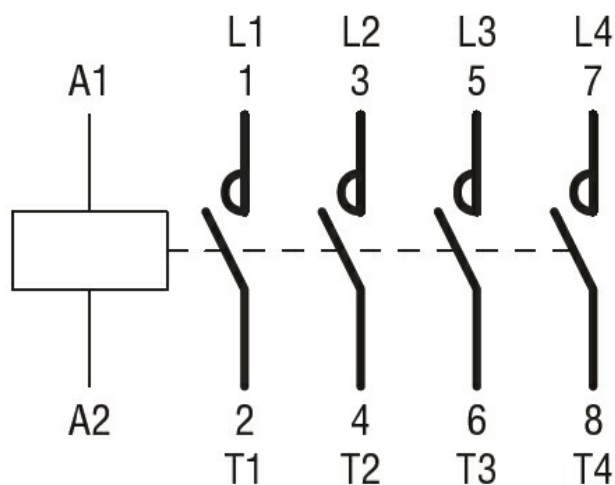
DC rated control voltage

		min	V	440		
		max	V	480		
DC operating voltage						
pick-up		min	%Us	80		
		max	%Us	110		
drop-out		min	%Us	20		
		max	%Us	60		
Average coil consumption ≤20°C						
		in-rush	W	300		
		holding	W	10		
Max cycles frequency						
Mechanical operation			cycles/h	2400		
Operating times						
Average time for Us control						
in AC	Closing NO	min	ms	80		
		max	ms	120		
	Opening NO	min	ms	30		
		max	ms	75		
	in DC	Closing NO	min	ms	80	
			max	ms	120	
		Opening NO	min	ms	30	
			max	ms	75	
		UL technical data				
		Full-load current (FLA) for three-phase AC motor				
		at 480V	A	414		
		at 600V	A	382		
Yielded mechanical performance						
for three-phase AC motor						
		200/208V	HP	125		
		220/230V	HP	150		
		460/480V	HP	350		
		575/600V	HP	400		
General USE						
Contactor		AC current	A	550		
	Short-circuit protection fuse, 600V					
Standard fault	Short circuit current		kA	18		
	Fuse rating		A	800		
	Fuse class		L			
Ambient conditions						
Temperature						
Operating temperature		min	°C	-50		
		max	°C	70		
	Storage temperature					

	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



#### Wiring diagrams



#### Certifications and compliance

##### 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

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching